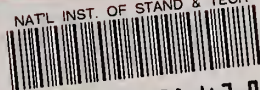


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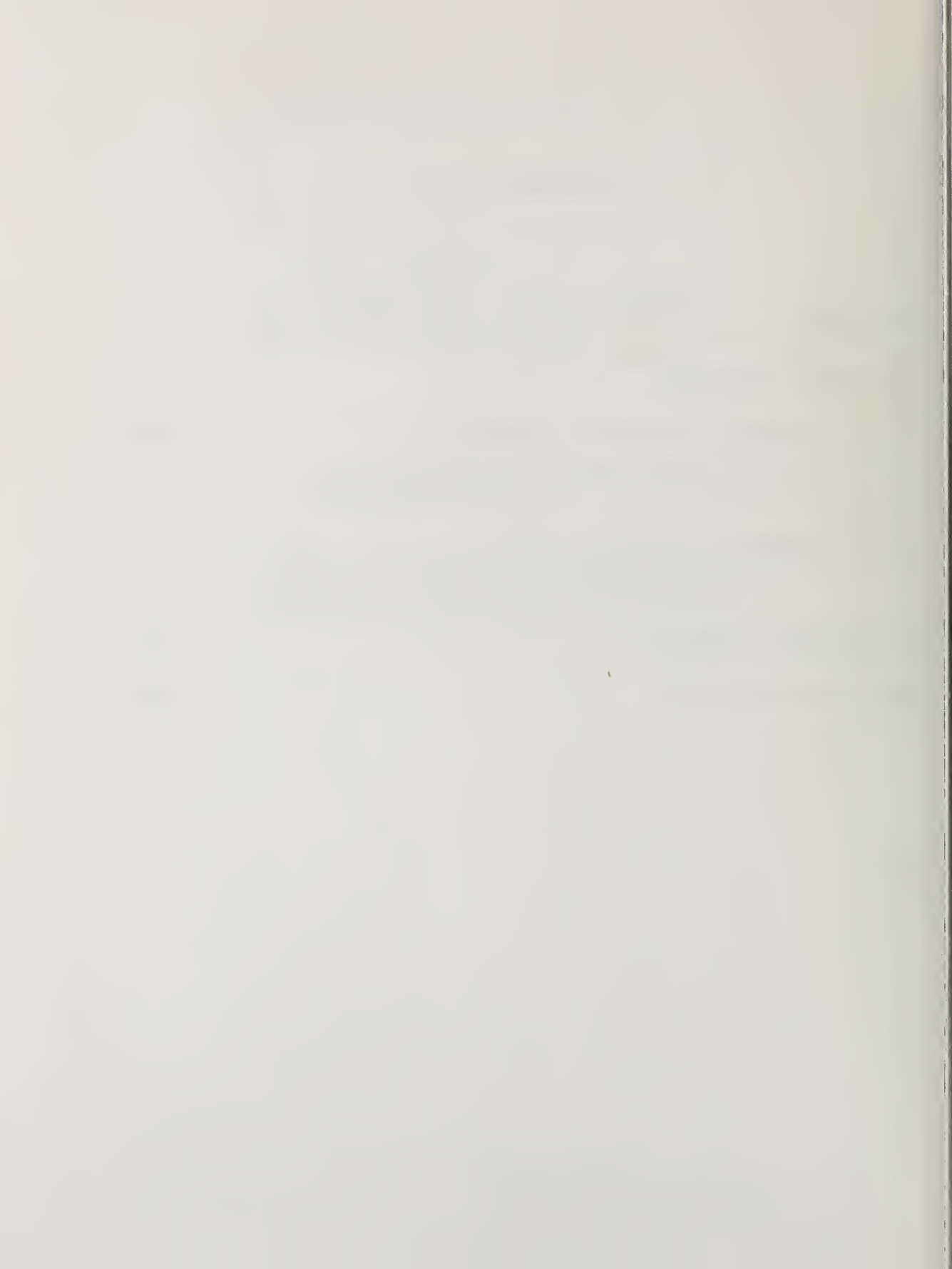
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CONTENTS

Introduction	v
I. ORGANIC COMPOUNDS	1
II. a. INORGANIC COMPOUNDS OF NONMETALS (Containing elements C, H, D, T, halogens, N, O, P, S, As, B, Se, Si and noble gases)	1861
b. INORGANIC COMPOUNDS OF METALS (Containing elements other than those in IIa)	1985
III. POLYMERIC COMPOUNDS	2295
IV. MINERALS AND ORES	2326



INTRODUCTION

This infrared bibliography is based on a systematic search of the literature on infrared spectroscopy up to the end of 1960. The literature search has been made by going through journals as well as through Chemical Abstracts. The extent of coverage of various journals is shown in lists A, B and C at the end of the Introduction.

As a general rule, any paper of interest in the field of infrared spectroscopy is included. Examples of fringe areas include microwave spectra where rotational constants are given, papers on preparation of chemical compounds where infrared spectra are used for identification, papers on Beer's law, references to mathematical treatments such as group theory and statistical mechanics and so on. Papers on Raman spectroscopy have, however, not been included.

The bibliography has been divided into four sections: I, Organic Compounds; II, Inorganic Compounds (a, of non-metals; b, of metals); III, Polymeric Compounds; and IV, Minerals and Ores. The coverage in each section is as follows.

Section I : This section includes organic compounds containing C, H, D, T, halogens, N, O, P, S, As, B, Se and Si. Molecular complexes like $C_6H_6 \cdot I_2$, $C_4H_6 \cdot C_4H_2O_3$ and $CH_3NH_2 \cdot BF_3$ have also been included in this section; the inorganic components in the molecular complexes are also made up of the elements mentioned earlier.

Section II(a) : In this section, inorganic compounds containing C, H, D, T, halogens, N, O, P, S, As, B, Se, Si and noble gases have been included. Molecular complexes with inorganic components like $\text{BF}_3 \cdot \text{NH}_3$ and $\text{H}_2\text{SO}_4 \cdot \text{HNO}_3$ are also included in this section; the complexes also contain the elements mentioned earlier.

Section II(b) : In this section, simple and complex compounds of elements not covered in II(a) are included, the elements being arranged alphabetically. Molecular complexes like $\text{SnCl}_4 \cdot \text{C}_4\text{H}_8\text{O}_2$ are included in the appropriate sub-section dealing with the metallic element (Sn in this case). Complexes like $\text{NaUO}_2(\text{C}_2\text{H}_3\text{O}_2)_3$, $\text{K}_4\text{Fe}(\text{CN})_6$, $\text{K}_3\text{Co}(\text{CN})_5\text{NO}$, and $\text{K PtCl}_3(\text{NH}_3)$ are included under uranium, iron, cobalt and platinum, respectively, and not under sodium or potassium. A complex like $[\text{Co}(\text{NH}_3)_6]^{+3} [\text{Cr}(\text{CN})_6]^{3-}$ (written as $\text{CoC}_6\text{H}_{18}\text{N}_{12}\text{Cr}$) would come under the element which comes first in alphabetical order (Co in this case). After the first IIb element, the elements of sections I and IIA are written followed by the other IIb element.

Section III : Molecules like polystyrene $(\text{C}_6\text{H}_8)_n$, polyethylene $(\text{C}_2\text{H}_4)_n$, paraldehyde, $(\text{CH}_2\text{O})_n$, as well as other polymeric molecules where n is not exactly known are included in this section.

Section IV : Most of the minerals and ores are included in this section.

The bibliography is arranged in the order of empirical formulae of compounds in each of the above categories. The information on each compound is given under the following headings: Empirical formula; Name; Range; State; Remark and Reference.

Empirical Formula : In sections I and II(a), the following order of elements is followed in writing the empirical formulae; C, H, D, T, Br, Cl, F, I, N, O, P, S, As, B, Se and Si (followed by noble gases in section IIA). The following examples would serve to illustrate the order of arrangement.

$C_{13}H_2Cl_{10}N_2O$, $C_{13}H_3F_5N_2O_6$, $C_{13}H_4Cl_2F_6N_2O$, $C_{13}H_4Cl_8N_2O$, $C_{13}H_4F_{20}O_4$, $C_{13}H_5Cl_7N_2O$
; CHN, CO_2 , H_2O , D_2O ...

Compounds with the same empirical formulae are arranged according to the alphabetic order of the names. In section I, compounds are arranged in the order of increasing number of C atoms. In section II(a), C-compounds are followed by hydrogen compounds which are followed by deuterium compounds and so on. In section II(b), compounds are listed according to the alphabetic order of the element symbols (e.g., Ca comes before Cu). The following examples illustrate the manner in which empirical formulae are given in this section: (i) oxalate complex of Cobalt(III) CoC_6O_{12} ; (ii) acetylacetonate complex of cobalt(III): $CoC_{15}H_{21}O_6$. In section III, the arrangement is similar to sections I and II in the monomer part of the system. The arrangement in section IV can be made clear by taking the example of spodumene $Li_2O \cdot Al_2O_3 \cdot 4SiO_2$. The empirical formula of spodumene is shown as $Al_2O_{12}Si_4Li_2$. The first element in the formula is the one that comes first alphabetically among the metallic elements (of section IIb); this is followed by other elements belonging to sections I, IIa and IIb.

Name of the Compound : In naming compounds, the IUPAC rules have been generally followed, although for some compounds trivial names have also been used when these are well known. The names of transition metal complexes have been simplified in the following manner:

$Pd_2C_{36}H_{30}Cl_4P_2$	Chlorotriphenylphosphinepalladium(II)- μ -dichlorochlorotriphenylphosphinepalladium(II)	Palladium(II)-chloride, triphenylphosphine complex
---------------------------	---	--

Ligands are written in the alphabetical order of their names.

Range : This gives the range of the wavelength over which the measurements are carried out. Whenever the range is not mentioned in the paper or abstract, we have omitted this information. When units are not mentioned, they are in cm^{-1} .

State : This defines the physical state of the compound in which the measurements are carried out. The code used is as follows: S = solid, mull, crystal, pellet or film; L = liquid; G = gas or vapor; Sol = solution.

Remark : This column indicates what the paper is about in a couple of words. The abbreviations used in this column are as follows;

Absorp, Abs	-	Absorption
Act	-	Activation
Amp	-	Amplitude
Anal	-	Analysis
Assign	-	Assignments
Assoc	-	Association
Calc	-	Calculation
Char	-	Characteristic
Compar	-	Comparison
Compd	-	Compound
Config	-	Configuration
Const	-	Constants
Corr	-	Correlation
Decomp	-	Decomposition
Depol	-	Depolarization

Dispers	-	Dispersion
Disso	-	Dissociation
Dist	-	Distance
Distinct	-	Distinction
Elect	-	Electron
Excit	-	Excitation
Ext coeff	-	Extinction coefficient
Fact	-	Factor
FC	-	Force constants
Freq	-	Frequencies
Gr	-	Group
H bond	-	Hydrogen bond
I	-	Intensity
Ident	-	Identification
Int	-	Internal
Intermol	-	Intermolecular
IR	-	Infrared
Iso	-	Isomerism
Mag	-	Magnetic
Micro	-	Microwave
Mol	-	Molecular
Mom inert	-	Moment of Inertia
NCA	-	Normal coordinate analysis
OD	-	Optical Density
Pert	-	Perturbation

Pot func	-	Potential function
Prep	-	Preparation
Prop	-	Properties
Press	-	Pressure
Qual	-	Qualitative
Quant	-	Quantitative
Quant mech	-	Quantum mechanics
Ref	-	Reference
Refl	-	Reflectance
Rot vib	-	Rotation vibration
Sens	-	Sensitive
Sp	-	Specific
Spec	-	Spectrum
Struc, Struct	-	Structure
Substi	-	Substitution
Taut	-	Tautomerism
Temp	-	Temperature
Theo	-	Theoretical
Thermo	-	Thermodynamics
Trans	-	Transmission
Vib	-	Vibrations

Reference : This column gives the literature reference. The reference is complete except that only the name of the first author is given. The reference is arranged in the order: Author, Journal, Volume, Year and Page. The codes used for the journals are given in the accompanying lists A, B and C. A typical reference is as follows: Herzberg, JCP 17 (1949) 1099. For any given compound,

references are generally arranged in chronological order. In cases where there are more than one reference in the same year, the references are arranged according to the alphabetical order of the authors.

LIST OF JOURNALS COVERED

List 'A'

(Journals covered till the end of 1960)

<u>Code</u>	<u>Journal</u>
AC	Anal. Chem.
ACS	Acta Chem. Scandinavica
AJC	Australian J. Chem.
AJP	Australian J. Phys.
AJSR	Australian J. Sc. Res.
AMS	Am. Sci.
APS	Appl. Spectroscopy
BCSJ	Bull. Chem.Soc. Japan
CJC	Can. J. Chem.
CJP	Can. J. Physics
CJR	Can. J. Research (A series)
CR	Chem. Rev.
CS	Current Science
IJP	Ind. J. Phys.
JACS	J. Am. Chem. Soc.

<u>Code</u>	<u>Journal</u>
JAP	J. Appl. Phys.
JCP	J. Chem. Phys.
JCS	J. Chem. Soc.
JINC	J. Inorg. & Nucl. Chem.
JMP	J. Mol. Phys.
JMS	J. Mol. Spect.
JOC	J. Org. Chem.
JOSA	J. Opt. Soc. Am.
JPC	J. Phys. Chem.
JPS	J. Polymer Sci.
JRNB	J. Res. NBS
JSI	J. Sci. Instr.
MC	Makromol Chem.
MP	Mol. Phys.
N	Nature
OS	Opt. Spectroscopiya
PIAS	Proc. Ind. Acad. Sci.
POL	Polymer
PR	Phys. Rev.
PRS	Proc. Roy. Soc. (London)
RMP	Rev. Mod. Phys.
RSI	Rev. Sci. Instr.
SA	Spect. Acta
TE	Tetrahedron
TFS	Trans. Faraday Soc.

List 'B'

(Journals covered through a search in Chemical Abstracts
for the years 1958-1961)

A	Ann
AAN	Atti Accad Nazl Lincei, Rend. Classe, Sci. Fis; mat. e. nat.
ABB	Arch. Biochem. Biophys.
ACR	Acta Cryst
AF	Arikiv Fysik
AM	Am. Minerologist
ANA	Analyst
ANC	Angew. Chem.
ANCR	Ann. Chim. (Rome)
ARK	Arkiv. Kemi
ARS	Anales real soc espan fis y quim (Madrid) Ser.
BAPS	Bull. Am. Phys. Soc.
BASU	Bull. Acad. Sci. U.S.S.R., Phys. Ser.
BSCF	Bull. Soc. Chim. France
CCA	Creat Chem. Acta
CCCC	Collection Czechoslov. Chem. Sommun.
CIL	Chem. Ind (London)
CPBT	Chem. Pharm. Bull. (Tokyo)
CPR	Compt. Rend.
DA	Dissertation Abstr.
DANS	Doklady Akad Nauk. SSSR

FTT	Fiz Tverdogo Tela
GCI	Gazz Chim. ital.
HCA	Helv. Chim. Acta
IANS	Izvest. Akad. Nauk. SSSR Ser. Fiz.
JAFc	J. Agr. Food Chem.
JAOC	J. Am. Oil Chemists Soc.
JAPCL	J. Appl. Chem. (London)
JAPS	J. Appl. Polymer Sci.
JBC	J. Biological Chem.
JCE	Journal of Chemical Education
JCSJ	J. Chem. Soc. Japan
JIIS	J. Indian Inst. Sci.
JPR	J. Phys. radium
JPRC	J. Pract. Chem.
JPSJ	J. Phys. Soc. Japan
JSIR	J. Sci. Ind. Res.
KKZ	Kogyo Kagaku Zasshi
NC	Nuovo Cimento
NKZ	Nippon Kagaku Zasshi
NWS	Naturwissenschaften
P	Physica
PCS	Phys. and Chem. of Solids
PPSL	Proc. Phys. Soc. (London)
PhCS	Proc. Chem. Soc.
QRL	Quarterly Revs. (London)
RTC	Rec. Trav. Chim.

SK	Soumen Kemistilehti
TEL	Tetrahedron Letters
UFZ	Ukrain Fiz. Zhur
ZAC	Z. anal. Chem.
ZAUA	Z. anorg. U. allgem. Chem.
ZE	Z. Electrochem.
ZN	Z. Naturforsch
ZOK	Zhur. Obsheei. Khim.
ZP	Z. Physik.

List 'C'

(Journals covered by the NBS Group in their data collection up to (approx) 1956, but not included in Lists A and B)

AMAF	Akriv Mat. Astron. Fysik
ASS	Ann. Soc. Sci. Bruxells
BBA	Biochim et. Biophy. Acta
BBS	Bull B S
CIC	Chem. in Canada
DFS	Disc. Far. Soc.
IE	Ind. Eng. Chem.
IEC	Ind. Eng. Chem. (Anal. Ed.)
JA	Jap. Analyst
JP	J. Physique
JPCC	J. Phys. & Coll. Chem.
JPJ	J. Pharm. Japan

PNAS

Proc. NAS

RPCJ

Rev. Phys. Chem. Jap.

ZPC

Z. Physik. Chem. Frankfurt

C ₉ H ₁₅ NO ₃ S	Actithiazic acid	-	-	Spec	Sobin	JACS 74 (1952)	2947
C ₉ H ₁₅ NO ₃ S	1-2-(5-Carboxypentyl)-4-thiazolidone	-	S	Freq	McLamore	JACS 74 (1952)	2946
C ₉ H ₁₅ NO ₃ S	2-(4-Carboxybutyl)-4-thiazolidone methyl ester	-	Sol	Freq	Pennington	JACS 75 (1953)	105
C ₉ H ₁₅ NO ₅	Diethyl acetamido-malonate	2-15/μ	S	Spec, Freq	Abramovitch	CJC 36 (1958)	151
C ₉ H ₁₅ NO ₅ S	1 2-(5-Carboxypentyl)-4-thiazolidone sulfone	-	S	Band freq	McLamore	JACS 74 (1952)	2946
C ₉ H ₁₅ NO ₆	1,2-Dicarbomethoxy-3-methyl-3-nitrobutane	2.5-8/μ	Sol	Spec, Struct	Magee	JOC 19 (1954)	168
C ₉ H ₁₅ NSi	Dimethylphenylsilyl-methylamine	-	-	Absorption	Noll	JACS 73 (1951)	3871
C ₉ H ₁₅ N ₃	2,4,6-Triethyl-s-triazine	1-15/μ 2-15/μ	Sol Sol	Spec, Ident Spec	Cairnus Goubean	JACS 74 (1952) JPC 58 (1954)	5633 1078
C ₉ H ₁₅ N ₃ O ₃	Hexahydro-1,3,5-triacetyl-s-triazine	650-3500	S	Spec	Gradsten	JACS 70 (1948)	3079
C ₉ H ₁₅ N ₇	5,7-Diamino-3-n-amylo-s-triazolo[4,3-a]-s-triazine	-	-	Freq	Kaiser	JOC 18 (1953)	1610
C ₉ H ₁₆	2-n-Amyl-1,3-butadiene	650-3900	-	Spec	Marvel	JACS 70 (1948)	3842
C ₉ H ₁₆	α-Cyclogeranioline	700-1500	L	Spec	Bateman	JCS - (1952)	1714
C ₉ H ₁₆	cis-Cyclononene	2-15/μ	L	Spec Ident	Blomquist Cope	JACS 74 (1952) JACS 77 (1955)	3643 1628

C_9H_{16}	trans-Cyclononene	3-16/ μ	L	Spec Ident	Blomquist Cope	JACS 74 (1952) 3643 JACS 77 (1955) 1628
C_9H_{16}	2-Cyclopropyl-1-hexene	-	L,Sol	Freq	Slabey	JACS 76 (1954) 3604
C_9H_{16}	2-Cyclopropyl-2-hexene H.B.	-	L,Sol	Freq	Slabey	JACS 76 (1954) 3604
C_9H_{16}	2-Cyclopropyl-2-hexene L.B.	-	L,Sol	Freq	Slabey	JACS 76 (1954) 3604
C_9H_{16}	2,6-Dimethyl-1,3-heptadiene	-	-	Freq	Bateman	JCS - (1952) 1714
C_9H_{16}	2,6-Dimethyl-2,4-heptadiene	-	-	Freq	Bateman	JCS - (1952) 1714
C_9H_{16}	2,6-Dimethyl-2,5-heptadiene	700-1500	L	Spec	Bateman	JCS - (1952) 1714
C_9H_{16}	2,6-Dimethyl-2,6-heptadiene	700-1500	L	Spec, Freq	Bateman	JCS - (1952) 1714
C_9H_{16}	2,2-Dimethylnorpinane	5-16/ μ	-	Spec	Ipatieff	JACS 73 (1951) 4098
C_9H_{16}	Geraniolene	-	-	Quant Mech. Spec	Mulliken Sheppard Barnard	JCP 7 (1939) 121 JCS - (1947) 1540 JCS - (1950) 915
C_9H_{16}	cis-Hexhydroindan	2-16/ μ	L	Spec	Entel	AC 25 (1953) 1303
C_9H_{16}	2-Methylbicyclo[3.2.1] octane	670-1450	L	Spec, Ident	Ipatieff	JOC 17 (1952) 272
C_9H_{16}	2-Methyl-3-n-butyl-1,3- butadiene	-	-	Absorption	Marvel	JACS 74 (1952) 1506
C_9H_{16}	7-Methyl-1,6-octadiene	6.07-14/ μ	-	Freq	Pines	JACS 76 (1954) 4417
C_9H_{16}	1-Methyl-trans-2-iso- propenylcyclopentane	6.07-13/ μ	-	Freq	Pines	JACS 76 (1954) 4417

C ₉ H ₁₆	1-Methyl-1-vinylcyclohexane	-	-	Freq	Parker	JCS - (1955)	1723
C ₉ H ₁₆	Spiro [3,5] nonane	-	-	Ident	Buchman	JACS 75 (1953)	6228
C ₉ H ₁₆	1,1,3-Trimethyl-4-cyclohexene	-	-	Freq	Pines	JACS 75 (1953)	6226
C ₉ H ₁₆ BrNO ₂	Scopoline methyl bromide	865-3180	S	Freq, Ident	Moffett	JACS 77 (1955)	1245
C ₉ H ₁₆ BrNO ₂	Scopine methyl bromide	851-1187	S	Freq	Moffett	JACS 77 (1955)	1245
C ₉ H ₁₆ ClNO ₃	Ethyl N-butyl-N-chloroacetylcarbamate	650-4000	Sol	Spec	Pianka	JCS - (1960)	983
C ₉ H ₁₆ ClNO ₃	Hexyl N-chloroacetylcarbamate	650-4000	Sol	Spec	Pianka	JCS - (1960)	983
C ₉ H ₁₆ ClNO ₄	$\Delta^5(10)$ -Dehydroquinolizidinium perchlorate	-	S	Freq	Lenoard	JACS 77 (1955)	439
C ₉ H ₁₆ Cl ₂ F ₂ Si ₂	2,2-Dichloro-3,3-difluorocyclobutylethyltrimethylsilane	10.85-11.1 μ	-	Freq	Park	JOC 25 (1960)	1628
C ₉ H ₁₆ Cl ₂ O ₃	Bis-1,2-dimethyl-2-chloroethyl carbonate	-	S	Freq, Struct	Hales	JCS - (1957)	618
C ₉ H ₁₆ Cl ₂ O ₃	Di-1-methyl-2-chloro-2-methylethyl carbonate	-	Sol	Freq, Struct	Hales	JCS - (1957)	618
C ₉ H ₁₆ IN	Δ^1 -Dehydroquinolizidinium iodide	-	S	Band study	Leonard	JACS 77 (1955)	439
C ₉ H ₁₆ F ₄ Si ₄	2,2,3,3-tetrafluorocyclobutylethyltrimethylsilane	10.85-11.1 μ	-	Freq	Park	JOC 25 (1960)	1628

$C_9H_{16}NO_7P$	Pantothenic acid-2',4'-phosphate	2-15 μ	-	Spec	Banddiley	JCS - (1952) 3783
$C_9H_{16}N_2O_2$	N-Acetylpiperidine- α -carboxylic acid N-methylamide	2.8-3.6 μ	Sol	Spec	Mizushima	JACS 76 (1954) 6003
$C_9H_{16}N_2O_2$	N-Nitrosotriacetamids	2-15 μ	S	Spec	Earl	JCS - (1951) 2207
$C_9H_{16}N_2O_2$	3-Isopropyl-4-acetyl-2-piperazinone	-	Sol	Freq, I	Hodgson	JACS 76 (1954) 1137
$C_9H_{16}N_2O_2$	Sedormid	2-16 μ	Sol	Spec, Freq	Umberger	AC 24 (1952) 1309
$C_9H_{16}N_4O_4$	2-N,N-(β -Hydroxyethyl)amino-4,6-dimethoxy-s-triazine	2-15 μ	S	Assign	Reimschuessel	JACS 82 (1960) 3756
$C_9H_{16}N_6$	N-Cyclohexylmelamine	2-16 μ	S	Spec, Struct, Assign	Padgett	JACS 80 (1958) 803
$C_9H_{16}O$	Cycloheptyl methyl ketone	5-7 μ	-	Freq	Friess	JACS 74 (1952) 1302
$C_9H_{16}O$	Cyclononane	2-15 μ	L	Spec	Blomquist	JACS 74 (1952) 3643
		-	-	Ident	Cope	JACS 77 (1955) 1628
		-	Sol	Carbonyl group study	Leonard	JACS 80 (1958) 6039
		-	Sol	Freq	Burer	HCA 43 (1960) 1487
$C_9H_{16}O$	ois-Ethyl 5-methyl-2-cyclohexenyl ether	-	-	Analysis	Geering	JACS 77 (1955) 1129
$C_9H_{16}O$	trans-Ethyl 5-methyl-2-cyclohexenyl ether	-	-	Analysis	Geering	JACS 77 (1955) 1129
$C_9H_{16}O$	2-Methyloctahydrobenzofuran	2-16 μ	L	Spec	Entel	JACS 73 (1951) 4152
$C_9H_{16}O$	2-Methyl-3-octynol-2	2-16 μ	L	Spec	Wotiz	JACS 72 (1950) 5055

$C_9H_{16}O$		L	Freq	Meinwald	JACS	76 (1954)	4571
2-Methyl-5-isopropyl-cyclopentanone	-						
3-Nonyanol-2	2-16 μ	L	Spec	Wotiz	JACS	72 (1950)	5055
2,2,3,5-Tetramethyl-3,5-methylenetetrahydrofuran	950-1700	Sol	Freq, Struct	Sulzbacher	JACS	75 (1953)	3859
2,2,6-Trimethylcyclohexanone	400-400	Sol	Spec	Cummins	JOS	- (1957)	3847
5-Isobutoxy-4-pentenal	-	-	Band study	Smith	JACS	74 (1952)	2018
3-n-Butyl-2,4-pentanedione	2.5-6.5 μ	L	Freq, Assign	Martin	JACS	81 (1959)	130
Cyclohexyl propionate	2-15 μ	L	Assign	Walton	JACS	79 (1957)	3985
Cyclooctanecarboxylic acid	2-16 μ	Sol	Spec	Cope	JACS	74 (1952)	173
2-Ethylbutyl acrylate	2-15 μ	L	Spec, Assign	Walton	JACS	79 (1957)	3985
Hexyl acrylate	2-15 μ	L	Assign	Walton	JACS	79 (1957)	3985
2-Methoxycarbonyl-hept-1-ene	-	Sol	Freq, Spec	Potts	SA	15 (1959)	679
Methyl cyclohexyl-acetate	828-1311	-	Ident	Loftfield	JACS	76 (1954)	35
Methyl 1-methylcyclohexanecarboxylate	762-1308	-	Ident	Loftfield	JACS	76 (1954)	35
1-octene-3-carboxylic acid	-	-	Struct	Bateman	JOS	- (1950)	941
1,5-Pentyl divinyl ether	-	-	Ident	Adelman	JACS	75 (1953)	2678

$C_9H_{16}O_3$	2,2-Dimethyl-6-hydroxy-cyclohexanecarboxylic acid	600-3800	-	Spec	Gamboni	HCA	37 (1954)	964
$C_9H_{16}O_3$	3,5-Dimethyl-3-methoxymethyl-6-oxotetrahydro-pyran	-	-	Freq	Hall	JCS	- (1954)	4303
$C_9H_{16}O_3$	Ethyl β, β -Dimethyl- α -ethylglycidate	1600-1800	Sol	Freq, Assign	House	JACS	80 (1958)	6389
$C_9H_{16}O_3$	Geronic acid	-	-	Ident	Meinwald	JACS	77 (1955)	1617
$C_9H_{16}O_3$	1-Glycoloylcycloheptanol	-	Sol	Freq, I	Billimoria	JCS	- (1954)	3257
$C_9H_{16}O_3$	1-Glycoloyl-2-methyl-cyclohexanol	-	L,Sol	Freq	Billimoria	JCS	- (1953)	2626
$C_9H_{16}O_3$	1-Glycoloyl-4-methyl-cyclohexanol	-	L	Freq, I	Billimoria	JCS	- (1954)	3257
$C_9H_{16}O_3$	7-Methoxy-1,4-dimethyl-6,8-dioxabicyclo[3.2.1]octane	-	-	Freq	Hall	JCS	- (1953)	1398
$C_9H_{16}O$	2-Methoxymethyl-2,4-dimethylpentane-1,5-dial	-	-	Purity tested	Hall	JCS	- (1954)	4303
$C_9H_{16}O_4$	Azelaic acid	2.8-4.0 μ 670-2000	Sol L,S	Spec, H bond Spec	Wall Corish	JACS JCS	61 (1939) - (1955)	2812 2431
$C_9H_{16}O_4$	Diethyl ethylmalonate	2-15 μ 13.52 μ 2-15 μ 1700-1800	Sol Sol Sol L,Sol	Spec Quant analysis Spec, Freq Iso, Freq	Washburn Washburn Abramovitch Abramovitch	AC AC CJC CJC	27 (1955) 29 (1957) 36 (1958) 37 (1959)	1812 1718 151 1146
$C_9H_{16}O_4$	Diethyl glutarate	670-3500	L,S	Spec, Config	Corish	JCS	- (1958)	927

$C_9H_{16}O_4$	Ethyl β , β -diethoxy-acrylate	2-15 μ	-	Freq, Struct	Rasmussen	JACS 71 (1949) 1073
$C_9H_{16}O_5$	Methyl 3,6-anhydro-2,4-di-O-methyl- β -D-galactopyranoside	700-1000	S	Freq, I	Barker	JCS - (1954) 4550
$C_9H_{16}O_5$	α -Methyl 3,6-anhydro-2,4-di-O-methyl-D-mannopyranoside	700-1000 700-1010	S -	Freq, I Freq	Barker Foster	JCS - (1954) 4550 JCS - (1954) 3367
$C_9H_{16}O_5$	β -Methyl 3,6-anhydro-2,4-di-O-methyl-D-mannopyranoside	700-1000 700-1010	S -	Freq, I Freq	Barker Foster	JCS - (1954) 4550 JCS - (1954) 3367
$C_9H_{16}O_5$	Methyl 3,6-O-isopropylidene- α -D-xylofuranoside	-	-	Struct	Baker	JACS 77 (1955) 7
$C_9H_{16}O_5$	Methyl 3,5-O-isopropylidene- β -D-xylofuranoside	-	I	Freq	Baker	JACS 77 (1955) 7
$C_9H_{16}O_5$	6-Deoxy-L-mannopyranose 1,2-(methyl orthoacetate)	2-15 μ 2-15 μ	S S	Spec, Config Spec	Isbell Tipson	JRNB 57 (1956) 179 JRNB 62 (1959) 257
$C_9H_{16}O_6$	1,2-O-Isopropylidene-D-galactopyranose	2-15 μ	S	Spec	Tipson	JRNB 62 (1959) 257
$C_9H_{16}O_6$	1,2-O-Isopropylidene-D-glucopyranose	8-15 μ 2-15 μ	S S	Spec Spec	Kuhn Tipson	AC 22 (1950) 276 JRNB 62 (1959) 257
$C_9H_{16}O_6$	1,2-O-Isopropylidene-L-idofuranose	2-15 μ	S	Spec	Tipson	JRNB 62 (1959) 257
$C_9H_{16}O_6$	2,3,5-Tri-O-methyl-D-galactono- γ -lactone	1700-1800	S	Freq	Barker	CIL - (1958) 658
$C_9H_{16}O_6$	2,3,6-Tri-O-methyl-D-galactono- γ -lactone	1700-1800	S	Freq	Barker	CIL - (1958) 658

$C_9H_{16}O_6$	3,5,6-Tri-0-methyl-D-glucono- γ -lactone	1700-1800	S	Freq	Barker	CIL	- (1958)	658
$C_9H_{16}O_6$	2,3,4-Tri-0-methyl-D-mannono- δ -lactone	1700-1800	S	Freq	Barker	CIL	- (1958)	658
$C_9H_{16}O_6$	2,3,5-Tri-0-methyl-D-mannono- γ -lactone	1700-1800	S	Freq	Barker	CIL	- (1958)	658
$C_9H_{16}O_6$	2,3,6-Tri-0-methyl-D-mannono- γ -lactone	1700-1800	S	Freq	Barker	CIL	- (1958)	658
$C_9H_{16}O_6$	3,4,6-Tri-0-methyl-D-mannono- δ -lactone	1700-1800	S	Freq	Barker	CIL	- (1958)	658
$C_9H_{16}S$	2,2,6,6-Tetramethyl-thiacyclohexene-3	-	-	Ident Spec	Naylor Glavebrook	JCS JCS	- (1949) - (1954)	2749 2094
$C_9H_{16}S$	cis-2-Thiadecalin	2-15 μ	L	Spec	Biroh	JOC	19 (1954)	1449
$C_9H_{16}S$	trans-2-Thiadecalin	2-15 μ	L	Spec	Biroh	JOC	19 (1954)	1449
$C_9H_{17}Br_2NO$	2-Bromopseudotropine-N-methobromide	-	S	Ident	Nickson	JACS	77 (1955)	4094
$C_9H_{17}ClO_3$	2-Ethylhexyl chloro carbonate	-	S	Freq	Ory	SA	16 (1960)	1488
$C_9H_{17}N$	1-n-Butyl-2-methyl- Δ^2 -pyrrolidine	-	L	Freq	Leonard	JACS	76 (1954)	2781
$C_9H_{17}N$	1-Butyl-1,2,5,6-tetrahydropyridine	3-4 μ	L,Sol	Freq	Tallent	AC	28 (1956)	953
$C_9H_{17}N$	1,2-Diethyl-1,2,5,6-tetrahydropyridine	3-4 μ	L,Sol	Freq	Tallent	AC	28 (1956)	953
$C_9H_{17}N$	1-Methyl-2-n-butyl- Δ^2 -pyrrolidine	-	L	Freq	Leonard	JACS	76 (1954)	2781

$C_9H_{17}N$	Nonanenitrile	-	-	Freq	Kitson	AC	24 (1952)	334
$C_9H_{17}N$	Pinidine	3-4 μ	L, Sol	Freq	Tallent	AC	28 (1956)	953
$C_9H_{17}N$	Quinalizidine	2-8 μ	S	Spec	Nakanishi	BCSJ	30 (1957)	403
$C_9H_{17}N.HCl$	Quinalizidine hydrochloride	2-8 μ	S	Spec	Nakanishi	BCSJ	30 (1957)	403
$C_9H_{17}N.HClO_4$	1-n-Butyl-2-methyl- Δ^2 -pyrroline perchlorate	-	S	Freq	Leonard	JACS	76 (1954)	2781
$C_9H_{17}N.HClO_4$	1-Methyl-2-n-butyl- Δ^2 -pyrroline perchlorate	-	S	Freq	Leonard	JACS	76 (1954)	2781
$C_9H_{17}NO$	1-Diethylamino-1-penten-3-one	1500-1800	Sol	Freq, Struct	Leonard	JACS	81 (1959)	595
$C_9H_{17}NO$	4-Diethylamino-3-penten-2-one	1500-1800	Sol	Freq, Struct	Leonard	JACS	81 (1959)	595
$C_9H_{17}NO$	N,N-Diethyl- α -methylcrotonamide	-	-	Ident	Snyder	JACS	76 (1954)	1893
$C_9H_{17}NO$	1,2-Dimethyl-1-azacyclooctan-3-one	-	-	Freq	Leonard	JACS	74 (1952)	1704
$C_9H_{17}NO$	dl-1,2-Dimethyl-2-ethyl-ethyl-3-piperidone	-	-	Ident	Leonard	JACS	75 (1953)	1674
$C_9H_{17}NO.HCl$	dl-1,2-Dimethyl-2-ethyl-3-piperidone hydrochloride	-	-	Ident	Leonard	JACS	75 (1953)	1674
$C_9H_{17}NOS$	2-n-Hexyl-4-thiazolidone	-	S	Freq	Pennington	JACS	75 (1953)	109
$C_9H_{17}NO_2$	2-Acetyl-3-methoxy-piperidine	-	Sol	Freq	Baker	JOC	20 (1955)	136

$C_9H_{17}NO_2$	1-Methyl-1-azacyclononan -5-ol-6-one	- - -	S, Sol Sol Sol	Freq Freq Freq	Leonard Leonard Leonard	JACS 76 (1954) JACS 76 (1954) JACS 76 (1954)	630 3463 5708
$C_9H_{17}NO_2$	1-Methyl-3-(3-hydroxy- propyl)-4-piperidone hemiacetal	-	Sol	Freq	McElvain	JACS 76 (1954)	5625
$C_9H_{17}NO_2S$	β -t-Butylsulfonyl- α -ethyl-650-3600 propionitrile	S	S	Spec	Ross	JACS 73 (1951)	540
$C_9H_{17}NO_4$	Ethyl δ -methyl- α - nitrohexanoate	-	-	Freq	Emmons	JACS 77 (1955)	4391
$C_9H_{17}NO_4$	Ethyl α -nitrohepta- noate	-	-	Freq	Emmons	JACS 77 (1955)	4391
$C_9H_{17}NO_6$	Methyl 2-acetamido-2- deoxy- α -D-glucos- pyranoside	-	S	Freq, I	Barker	JCS - (1954)	171
$C_9H_{17}NS$	β -t-Butylmercapto- α -ethylpropionitrile	-	-	Ident	Ross	JACS 73 (1951)	540
$C_9H_{17}N_3$	4-n-Heptyl-v-triazole	2-16 μ	-	Spec, Freq	Hartzel	JACS 76 (1954)	667
$C_9H_{17}O_4$	Methyl N-isopropylidene -3-amino-3-deoxy- α -D- arabinofuranoside	-	-	Freq	Baker	JACS 77 (1955)	7
$C_9H_{17}O_4$	Methyl N-isopropylidene -3-amino-3-deoxy- β -D- arabinofuranoside	-	-	Freq	Baker	JACS 77 (1955)	7
C_9H_{18}	n-Butylcyclopentane	-	-	Freq, Analysis	Hastings	AC 24 (1952)	612
C_9H_{18}	Cyclononane	3-16 μ -	L -	Spec Ident	Blomquist Cope	JACS 74 (1952) JACS 77 (1955)	3643 1628

C_9H_{18}	2-Cyclopropylhexane	-	L, Sol	Freq	Slabey	JACS	76 (1954)	3604
C_9H_{18}	3,3-Dimethyl-3-isopropyl-1-butene	-	-	Analysis	Anderson	AC	20 (1948)	998
C_9H_{18}	1-Ethyl-1-butylcyclopropene	2-15 μ	L	Analysis	Derfer	JACS	71 (1949)	2482
C_9H_{18}	Isobutylcyclopentane	-	-	Freq, Analysis	Hastings	AC	24 (1952)	612
C_9H_{18}	Isopropylcyclohexane	3.2-3.6 μ	Sol	Spec, Assign Group analysis	Plyler Hastings	JRNB AC	43 (1949) 24 (1952)	37 612
		2-12 μ	Sol	Spec, Struct	O'Connor	JACS	76 (1954)	2368
		15-35 μ	S	Spec, Struct	Bentley	SA	15 (1959)	165
C_9H_{18}	Methylcyclooctane	2-16 μ	-	Spec	Cope	JACS	74 (1952)	179
C_9H_{18}	1-Methyl-1-ethylcyclohexane	2-16 μ	L	I	Pines	JACS	77 (1955)	2819
C_9H_{18}	cis-1-Methyl-2-ethylcyclohexane	2-15 μ	L	Spec	Birch	JOC	19 (1954)	1449
C_9H_{18}	trans-1-Methyl-2-ethylcyclohexane	2-15 μ	L	Spec	Birch	JOC	19 (1954)	1449
C_9H_{18}	1-Methyl-1-neopentylcyclopropane	3-14 μ	L	Spec Ext coefficient	Bridson Cross	JCS TFS	- (1951) 47 (1951)	2999 354
C_9H_{18}	Nonanaphthene	1.1-1.8 μ	L	Spec	White	JRNB	13 (1937)	799
C_9H_{18}	1-Nonene	-	-	Analysis Spec, Struct Assign	Hampton Bentley Harrah	AC SA JCP	21 (1949) - (1959) 33 (1960)	923 165 298
C_9H_{18}	n-Pentylcyclobutane	2-15 μ	L	Analysis	Derfer	JACS	71 (1949)	2482

C_9H_{18}	n-Propylcyclohexane	3.2-3.6 μ	Sol	Spec, Assign Group analysis	Plyler Hastings	JRNB 43 (1949) AC 24 (1952)	37 612
		2-12 μ	Sol	Spec, Struct	O'Connor	JACS 76 (1954)	2368
		15-35 μ	S	Spec, Struct	Bentley	SA 15 (1959)	165
C_9H_{18}	1,1,3-Trimethylcyclohexane	-	-	Group analysis	Hastings	AC 24 (1952)	612
		-	-	Ident, Analysis	Hawkins	JCS - (1954)	4704
C_9H_{18}	1,2,4-Trimethylcyclohexane	1100-1800	-	Spec	Barnes	IEC 15 (1943)	659
C_9H_{18}	2,3,4,4-Tetramethylpent-1-ene	600-4000	L	Freq	Kharasch	JOC 19 (1954)	1150
$C_9H_{18}^N$	trans-1,2-Bis-(dimethylamino)-3-cyclopentene	3-15 μ	L	Spec	Cope	JACS 73 (1951)	1199
$C_9H_{18}^N$	Di-n-butylcarbodiimide	2000-2300	Sol	I	Meakins	JCS - (1957)	993
$C_9H_{18}^N$	Di-sec-butylcarbodiimide	2000-2300	Sol	I	Meakins	JCS - (1957)	993
$C_9H_{18}^N$	Di-n-butyl cyanamide	720-750	L	Freq	Wiberley	AC 22 (1950)	841
$C_9H_{18}^N$	2,4,4-Trimethyl-1-isopropyl-2-imidazoline	-	-	Freq	Peerman	JACS 76 (1954)	6085
$C_9H_{18}^N O_2$	Acetyl-DL-leucine N-methylamide	2.7-3.2 μ 2.8-3.5 μ 2.8-6.6 μ	Sol Sol S	Freq Spec, H bond, Config Spec, Config	Mizushima Mizushima Mizushima	JACS 73 (1951) JACS 74 (1952) JACS 75 (1953)	1330 4639 1863
$C_9H_{18}^N O_2$	Acetylmorleucine-N-methylamide	2.8-3.1 μ 2800-3500	Sol Sol	Spec, Freq, Struct Config	Mizushima Tsuboi	JACS 76 (1954) JACS 81 (1959)	2479 1406
$C_9H_{18}^N O_4$	1,1-Dinitrononane	-	-	Spec	Novikov	IANS - (1959)	1855

$C_9H_{18}O$	6.5-15 μ	-	Spec	Smith	JACS 73 (1951)	5273
2-n-Butyltetrahydro- pyran						
$C_9H_{18}O$	2-16 μ	L	Spec	Cope	JACS 75 (1953)	3215
Cyclooctylmethyl alcohol						
$C_9H_{18}O$	1650-1800 2800-3000	Sol Sol	Ext coefficient Freq, Spec	Cross Pozefsky	TFS 47 (1951) AC 23 (1951)	354 1611
Diisobutyl ketone	-	Sol	Freq	Bartlett Rae	JACS 77 (1955) JPC 63 (1959)	2806 1311
$C_9H_{18}O$	-	Sol	Freq	Cole	JCS - (1959)	1222
cis-4-Isopropylcyclo- hexanol	1300-3650	Sol	Freq, I			
$C_9H_{18}O$	1300-3650	Sol	Freq, I	Cole	JCS - (1959)	1222
trans-4-Isopropylcyclo- hexanol						
$C_9H_{18}O$	-	L, Sol	Freq	Slabey	JACS 76 (1954)	3604
Methylbutylcyclo- propylcarbinol						
$C_9H_{18}O$	1600-1800	Sol	Freq	Fuson	JACS 76 (1954)	2526
4-Nonanone						
$C_9H_{18}O$	500-1750 1733	L G	Assign Freq	Thompson Hartwell	JCS - (1945) JCS - (1948)	640 1436
5-Nonanone	1650-1800 1600-1800	Sol Sol	Ext coefficient Freq	Cross Fuson	TFS 47 (1951) JACS 76 (1954)	354 2526
$C_9H_{18}O$	8-12 μ 950-1000	L L	Spec, Struot Spec, Freq	Crombie Crombie	JCS - (1950) JCS - (1952)	1707 2997
trans-n-4-Nonenol-1						
$C_9H_{18}O$	-	-	Freq	Crombie	JCS - (1952)	2997
trans- Δ^5 -Nonenol						
$C_9H_{18}O$	2-16 μ	L	Spec	Entel	JACS 73 (1951)	4152
2-Propylcyclohexanol						
$C_9H_{18}O$	-	-	Freq	Bartlett Zook	JACS 77 (1955) JACS 77 (1955)	2806 2501
3,3,4,4-Tetramethyl-2- pentanone	-	-	Freq			

$C_9H_{18}O$	2,2,6,6-Tetramethyl-tetrahydropyran	670-1500	L	Spec Freq	Batenan Brook	JCS - (1952) 1714 JOC 17 (1952) 988
$C_9H_{18}O$	cis-3,3,5-Trimethyl-cyclohexanol	-	-	Ident	Hawkins	JCS - (1954) 4704
$C_9H_{18}O$	trans-3,3,5-Trimethyl-cyclohexanol	-	-	Ident	Hawkins	JCS (1954) 4704
$C_9H_{18}OS$	Hexylthio propionate	2.5-16 μ	Sol	Struct, Freq	Nyquist	SA 15 (1959) 514
$C_9H_{18}O_2$	n-Amyl n-butyrate	500-1750	L	Assign	Thompson	JCS - (1945) 640
$C_9H_{18}O_2$	cis-Cyclononane-1,2-diol	-	Sol	Group study	Kuhn	JACS 76 (1954) 4323
$C_9H_{18}O_2$	trans-Cyclononane-1,2-diol	-	Sol	Group study	Kuhn	JACS 76 (1954) 4323
$C_9H_{18}O_2$	4,4-Dimethyl-2-pentyl acetate	2-15 μ	-	Spec	Brown	JACS 77 (1955) 3614
$C_9H_{18}O$	2-(2,2-Dimethyl-tetrahydrofuryl)propanol-2	-	-	Freq	Brook	JOC 17 (1952) 988
$C_9H_{18}O_2$	4-Ethyl-4-hydroxy-3-methyl-2-hexanone	-	-	Freq	Zimmerman	JACS 76 (1954) 2294
$C_9H_{18}O$	cis-2-(α -Hydroxyisopropyl)cyclohexanol	-	Sol	Freq	Zimmerman	JACS 75 (1953) 2367
$C_9H_{18}O_2$	trans-2-(α -Hydroxyisopropyl)cyclohexanol	-	Sol	Freq	Zimmerman	JACS 75 (1953) 2367
$C_9H_{18}O_2$	2-(1-Hydroxy-2-propyl)3,5-dimethyl-1-oxa-cyclopentane	-	-	Freq	Wiley	JACS 77 (1955) 3677

Methyl caprylate	2-15 μ L 1-12 μ L 6.81-14 μ L	L Sol L	Spec Spec, Ext coefficient Freq, I, Spec	Wotiz O'Connor Fowler	JACS 71 (1949) 3441 JAOC 28 (1951) 154 JOSA 43 (1953) 1054
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d-Methylethylisobutyl-acetic acid	700-3600	-	Spec	Doering	JACS 72 (1950) 2608
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dl-Methylethylisobutyl-acetic acid	700-3000	-	Spec	Doering	JACS 72 (1950) 2608
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Nonanoic acid	2-14 μ L 6.81-14 μ L 670-3500	S L L,S	Spec Freq, I Spec	Harple Fowler Corlish	AC 24 (1952) 635 JOSA 43 (1953) 1054 JCS - (1957) 1746
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2-n-Propylhexanoic acid	6.5-8.5 μ L	L	Ident	Guertin	AC 28 (1956) 1194
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3-n-Propylhexanoic acid	6.5-8.5 μ L	L	Ident	Guertin	AC 28 (1956) 1194
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3,5,5-Trimethylhexanoic acid	2.5-15 μ L	L	Spec	Cairns	JACS 74 (1952) 3982
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n-Butoxybutyl formate	800-1500	Sol	Assign	Katritzky	SA 16 (1960) 954
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Diisobutyl carbonate	1-12 μ L	L	Spec, Assign Absorption	Bell	JACS 50 (1928) 2940
	-	-	Freq, I	Bomino	TFS 25 (1929) 876
	-	Sol	Assign	Thompson	SA 13 (1958) 236
	-	-		Katritzky	SA 16 (1960) 964

Di-n-butyl carbonate	1-12 μ L	L	Assign, Spec Absorption	Bell	JACS 50 (1928) 2940
	-	-	Freq, I	Bromino	TFS 25 (1929) 876
	-	Sol	Assign	Thompson	SA 13 (1958) 236
	-	-		Katritzky	SA 16 (1960) 964

2,6-Diethoxytetrahydro-pyran	-	-	Struct	Hall	JCS - (1951) 2480
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$C_9H_{18}O_3$	2-Ethoxy-5-(β -hydroxyethyl)tetrahydropyran	-	L	Freq	Marvel	JACS 75 (1953)	4601
$C_9H_{18}O_4$	Methyl cladinoside	-	-	Freq	Flynn	JACS 76 (1954)	3121
$C_9H_{18}O_5$	Methyl 2,3,4-tri-O-methyl- β -D-arabopyranoside	-	S	Freq, I	Barker	JCS - (1954)	3468
$C_9H_{18}O_5$	Methyl 2,3,4-tri-O-methyl- β -D-xylopyranoside	-	S	Freq, I	Barker	JCS - (1954)	3468
$C_9H_{18}O_6$	3,4-O-Isopropylidene ketal of L-iditol	650-1500	G	Freq, Assign	Barker	JCS - (1959)	802
$C_9H_{18}O_6$	3,4-Isopropylidene ketal of D-mannitol	650-1500	G	Freq, Assign	Barker	JCS - (1959)	802
$C_9H_{18}O_6$	3,4-O-Isopropylidene ketal of D-sorbitol	650-1500	G	Freq, Assign	Barker	JCS - (1959)	802
$C_9H_{18}O_6$	Methyl 2,3-di-O-Methyl- α -D-glucofuranoside	-	S	Freq, I	Barker	JCS - (1954)	171
$C_9H_{18}O_6$	Methyl-3,4-di-O-methyl- β -D-glucofuranoside	-	S	Freq, I	Barker	JCS - (1954)	171
$C_9H_{18}O_6$	Methyl 4,6-di-O-methyl- β -D-glucofuranoside	-	S	Freq, I	Barker	JCS - (1954)	171
$C_9H_{18}O_6$	2,3,6-Tri-O-methyl-glucose	-	Sol	Not shown	McGillvray	JCS - (1953)	2577
		-	S	Freq, I	Barker	JCS - (1954)	171
		2-15 μ	S	Interaction with KBr	Barker	CIL - (1954)	
$C_9H_{18}O_6$	2,4,6-Tri-O-methyl- α -D-glucofuranose	-	S	Freq, I	Barker	JCS - (1954)	171

$C_9H_{18}O_6$	3,4,6-Tri-O-methyl- α -D-mannopyranose	-	S	Freq, I	Barker	JCS - (1954)	3468
$C_9H_{18}S$	2,2,6,6-Tetramethyl-tetrahydrothiopyran	700-2650	L	Spec	Sheppard	JCS - (1947)	1540
		500-1500	L	Proof of identity Spec	Naylor Sheppard	JCS - (1949) TFS 46 (1950)	2749 429
$C_9H_{18}Si$	Cyclopentamethylene-diethylsilane	2-35 μ	L	Assign	Oshesky	JACS 79 (1957)	2057
$C_9H_{19}Br$	n-Nonyl bromide	-	L	Mole ratio of trans & gauche	Yoshino	CJC 35 (1957)	339
$C_9H_{19}Cl_3OSi$	Trichlorosilylheptyl ethyl ether	-	-	Inductive effect	Josien	CPR 249 (1959)	826
$C_9H_{19}Cl_3OSi$	Trichlorosilyloctyl methyl ether	-	-	Inductive effect	Josien	CPR 249 (1959)	826
$C_9H_{19}Cl_3OSi$	Trichlorosilylpentyl butyl ether	-	-	Inductive effect	Josien	CPR 249 (1959)	826
$C_9H_{19}N$	1,2-Diethylpiperidine	3-4 μ	L, Sol	Freq	Tallent	AC 28 (1956)	953
$C_9H_{19}N$	1-Methyl-2-sec-butylpyrrolidine	-	-	Freq	Leonard	JACS 75 (1953)	1674
$C_9H_{19}N$	N-Methyloctenylamine	650-3500	L	Spec, Freq	Leonard	JACS 74 (1952)	1704
$C_9H_{19}NO$	cis-2-Amino-cyclononanol	-	Sol	Freq, Assign, Shift	Sicher	CGCC 24 (1959)	950
$C_9H_{19}NO$	trans-2-Amino-cyclononanol	-	Sol	Freq, Assign, Shift	Sicher	CGCC 24 (1959)	950
$C_9H_{19}NO$	Diethylformamide	-	Sol L	Freq, Analysis Group study	Emmons Robson	JOC 19 (1954) JACS 77 (1955)	1472 498
$C_9H_{19}NO$	2,2-Di-n-propyloxazolidine	-	Sol	Freq, Ext coefficient	Bergmann	JACS 75 (1953)	358

$C_9H_{19}NO$	5-Hydroxyazacyclodecane	-	-	Freq	Leonard	JACS 74 (1952)	4620
$C_9H_{19}NO$	ϵ -Methylaninopentyl ethyl ketone	-	-	Ident, Freq	Leonard	JACS 74 (1952)	1704
$C_9H_{19}NO$	N-1-Methylhexylidene-thanolamine	2-15 μ	-	Spec, Struct	Daasch	JACS 73 (1951)	4523
$C_9H_{19}NO_2$	2-(β -Hydroxypropyl)-3-methoxypiperidine	-	Sol	Freq	Baker	JOC 20 (1955)	136
$C_9H_{19}NO_3$	n-Nonyl nitrate	2-15 μ	Sol	Spec, Struct	Carrington	SA 16 (1960)	1279
$C_9H_{19}NO_3$	3,5,5-Trimethylhexyl nitrate	2-15 μ	Sol	Spec, Struct	Carrington	SA 16 (1960)	1279
$C_9H_{19}NO_5 \cdot HCl$	2-Amino-2-deoxy-3,4,6-tri-O-methyl- β -D-glucopyranose hydrochloride	-	S	Freq, I	Barker	JCS - (1954)	171
$C_9H_{19}NS$	4-(1-Piperidyl)butane-thiol	-	L, Sol	Band freq	Plant	JACS 77 (1955)	1572
$C_9H_{19}N_3O_4$	Diethyl N-(dimethylamino-methyl)-hydrazine-N,N'-dicarboxylate	-	-	Freq, Struct	Kenner	JCS - (1952)	2089
C_9H_{20}	3,3-Diethylpentane	15-35 μ	S	Spec, Struct	Bentley	SA 15 (1959)	165
C_9H_{20}	2,2-Dimethylheptane	-	-	Freq Assign	Sutherland Sheppard	JCP 15 (1947) JCP 16 (1948)	153 690
		-	-	Freq	Simpson	PRS 199 (1949)	169
		-	G	Analysis	Bell	AC 22 (1950)	1005
C_9H_{20}	2,3-Dimethylheptane	1200-1800	-	Spec	Barnes	IEC 15 (1943)	659
C_9H_{20}	3,3-Dimethylheptane	-	-	Assign	Sheppard	JCP 16 (1948)	690
C_9H_{20}	4,4-Dimethylheptane	-	-	Assign	Sheppard	JCP 16 (1948)	690

C ₉ H ₂₀	3-Ethylheptane	-	-	Assign	Sheppard	JCP 16 (1948)	690
C ₉ H ₂₀	4-Ethylheptane	-	-	Assign	Sheppard	JCP 16 (1948)	690
C ₉ H ₂₀	3-Methyl-3-ethylhexane	-	-	Assign	Sheppard	JCP 16 (1948)	690
C ₉ H ₂₀	2-Methyloctane	1200-1800	-	Spec	Barnes	IEC 15 (1943)	659
		-	-	Freq	Sutherland	JCP 15 (1947)	153
		-	-	Assign	Sheppard	JCP 16 (1948)	690
		-	-	Freq	Simpson	PRS 199 (1949)	169
		-	-	Ident	Pines	JACS 76 (1954)	4417
C ₉ H ₂₀	3-Methyloctane	1100-1800	-	Spec	Barnes	IEC 15 (1943)	659
		-	-	Assign	Sheppard	JCP 16 (1948)	690
C ₉ H ₂₀	4-Methyloctane	1100-1800	-	Spec	Barnes	IEC 15 (1943)	659
C ₉ H ₂₀	Nonane	1.1-1.8	L	Spec	White	JRNB 7 (1931)	907
		1.1-1.8	Sol	Spec	Liddel	JRNB 11 (1933)	599
		1300-1800	-	Spec	Barnes	IEC 15 (1943)	659
		-	-	Freq	Kellner	TFS 41 (1945)	217
		-	-	Assign	Sheppard	JCP 16 (1948)	690
		-	-	Freq	Mizushima	JACS 71 (1949)	1320
		-	-	Selection rules	Simanouti	JCP 17 (1949)	1102
		350-700	L	Freq	Donneaud	CPR 239 (1954)	1480
		13.8	L	Freq	Stein	JCP 22 (1954)	1993
		650-1450	S	Freq, Assign	Tschamler	JCP 22 (1954)	1845
		700-3000	Sol	Ext. coefficient	Jones	SA 9 (1957)	235
C ₉ H ₂₀	2,2,3,3-Tetramethyl pentane	1370-2900	L	I	Francis	JCP 18 (1950)	861
		-	-	Freq	Bartlett	JACS 77 (1955)	2806

C_9H_{20}	2,2,3,4-Tetramethyl-pentane	600-4000	L	Ident	Kharasch	JOC	19 (1954)	1150
C_9H_{20}	2,2,4,4-Tetramethyl-pentane	-	G	Freq Analysis	Kent	AC	19 (1947)	290
		1370-2900	L	I	Bell	AC	22 (1950)	1005
		-	L	Freq, Ident	Francis	JCP	18 (1950)	861
C_9H_{20}	2,2,4-Trimethylhexane	-	G	Analysis	Kharasch	JOC	19 (1954)	1150
		-	-	Group analysis	Bell	AC	22 (1950)	1005
		-	-		Hastings	AC	24 (1952)	612
C_9H_{20}	2,2,5-Trimethylhexane	1100-1800	-	Spec	Barnes	IEC	15 (1943)	659
		-	-	Analysis	Glasgow	JRNB	38 (1947)	537
		-	-	Analysis	Heigl	IEC	19 (1947)	293
		-	-	Freq	Kent	AC	19 (1947)	290
	8000-9000	-	Sol	Analysis	Hibbard	AC	21 (1949)	486
	-	-	G	Analysis	Bell	AC	22 (1950)	1005
	-	-	-	Analysis, Absorption	Schneider	JACS	73 (1951)	5013
	-	-	-	Group analysis	Hastings	AC	24 (1952)	612
	700-350	-	L	Freq	Donneaud	CPR	239 (1954)	1480
C_9H_{20}	2,3,3-Trimethylhexane	-	-	Group analysis	Hastings	AC	24 (1952)	612
C_9H_{20}	2,3,4-Trimethylhexane	-	-	Spec	Ciappetta	AC	20 (1948)	699
C_9H_{20}	2,3,5-Trimethylhexane	-	L	Analysis	Glasgow	JRNB	38 (1947)	537
		-	G	Analysis	Bell	AC	22 (1950)	1005
		-	-	Group Analysis	Hastings	AC	24 (1952)	612
C_9H_{20}	2,4,4-Trimethylhexane	-	G	Analysis	Bell	AC	22 (1950)	1005
		-	-	Group analysis	Hastings	AC	24 (1952)	612
C_9H_{20}	3,3,4-Trimethylhexane	-	-	Group analysis	Hastings	AC	24 (1952)	612
$C_9H_{20}ClO_3P$	2-Ethylhexyl hydrogen-chloromethylphosphate	600-5000	L,Sol	Spec, H bond	Peppard	JINC	12 (1960)	60

$C_9H_{20}N$	2.5-15/ μ	L	Spec	Cope	JACS	73 (1951)	1199
trans-1,2-Bis-(dimethylamino)cyclopentane							
Tetraethylurea	-	Sol	Freq	Beguin	HCA	42 (1959)	2262
N-(6-Amino)hexylmelamine	2-16/ μ	S	Spec, Struct	Padgett	JACS	80 (1958)	803
3,3-Dimethylpentanol-2	665-5000	L	Freq	Zeiss	JACS	75 (1953)	897
2,4-Dimethyl-3-ethyl-3-pentanol	1-15/ μ	L	H bond, Spec	Smith	JRNB	46 (1951)	145
2,6-Dimethylheptanol-4	665-5000	L	Freq	Zeiss	JACS	75 (1953)	897
4-Methoxy-2,4-dimethylhexane	-	-	Spec, Ident	Doering	JACS	75 (1953)	4733
Methyl sec-octyl ether	-	-	Freq	Corey	JACS	76 (1954)	6040
n-Nonanol	665-5000	L	Freq	Zeiss	JACS	75 (1953)	897
	-	L	Reference for comparison	Mosher	AC	27 (1955)	517
Nonanol-3	350-4000	L,Sol	OH band	Stuart	JCP	24 (1956)	559
Nonanol-4	665-5000	L	Freq	Zeiss	JACS	75 (1953)	897
Nonanol-5	665-5000	L	Freq	Zeiss	JACS	75 (1953)	897
2,2,4,4-Tetramethylpentanol-3	665-5000	L	Freq	Zeiss	JACS	75 (1953)	897
3,5,5-Trimethylhexan-2-ol	-	-	Ident	Graham	JCS	- (1954)	2180
2-Ethyl-2-butyl-1,3-propanediol	2-16/ μ	Sol	Spec	Sassaman	APS	8 (1954)	67

$C_9H_{20}O_2$	4-Ethyl-3-methyl-2,4-hexanediol	- - -	Purity	Zimmerman	JACS	76 (1954)	2294
$C_9H_{20}O_2$	Methoxymethylethylisobutylmethanol	810-840	L Analysis	Savitzky	RSI	21 (1950)	203
$C_9H_{20}O_2$	n-Nonyl hydroperoxide	5.5-14.5 μ	L Spec, Freq	Mosher	AC	27 (1955)	517
$C_9H_{20}O_3$	Ethyltriethoxymethane	-	- Spec, Freq	Nukada	NKZ	81 (1960)	1028
$C_9H_{20}O_3$	2-Methoxymethyl-2,4-dimethyl-1,5-pentanediol	700-1500	L Ident, Spec	Shay	AC	26 (1954)	652
$C_9H_{20}O_3$	1,1,3-Triethoxypropane	-	- Ident	Hall	JCS	- (1954)	2034
$C_9H_{20}O_3$	1,1,3-Triethoxypropane	-	- Component of mixture	Hall	JCS	- (1954)	3388
$C_9H_{20}O_3Si$	Allyltriethoxysilane	700-3000	L Spec, Assign	Richards	JCS	- (1949)	124
$C_9H_{20}O_4S_2$	Di-(n-Butylsulfonyl)methane	1000-1500	Sol Spec	Schreiber	AC	21 (1949)	1168
$C_9H_{20}S_2$	Di-(n-Butylmercapto)methane	1000-1500	Sol Spec	Schrieber	AC	21 (1949)	1168
$C_9H_{20}S_2$	3,5,5-Trimethyl-1,1-hexanedithiol	2.5-15 μ	L Spec, Freq	Cairns	JACS	74 (1952)	3982
$C_9H_{20}Si$	Cyclohexyltrimethylsilane	3-12 μ	Sol Spec	Kanazashi	BCSJ	27 (1954)	441
$C_9H_{21}N$	Di-n-Butylmethylethylamine	-	- Purity check	Dannley	JOC	20 (1955)	92
$C_9H_{21}N$	N-Methyloctylamine	650-3000	L Spec, Freq	Leonard	JACS	74 (1952)	1704
$C_9H_{21}N$	t-Nonylamine	2-15 μ	L,Sol Freq, Assign, NCA	Stewart	JCP	30 (1959)	1259
$C_9H_{21}N$	Tri-n-propylamine	1-12 μ 0.6-2.4 μ	L Spec L N-H study	Bell Ellis	JACS JACS	49 (1927) 50 (1928)	1837 685

C ₉ H ₂₁ N ₀	3-Di-n-propylamino-propan-1-ol	3/μ	Sol	Freq, H bond	Flett	SA	10 (1958)	21
C ₉ H ₂₁ NS ₁	Piperidinomethyl-trimethylsilane	2-15/μ	S	Spec	George	JACS	77 (1955)	3493
C ₉ H ₂₁ N ₃	N,N'-Dimethyl-N''-hexylguanidine	800-3500	S	Spec	Goto	BCSJ	30 (1957)	723
C ₉ H ₂₁ N ₃ .HCl	N,N'-Dimethyl-N''-hexylguanidine hydrochloride	800-3500	S	Spec	Goto	BCSJ	30 (1957)	723
C ₉ H ₂₁ O ₂ FS ₃	o,o-Diethyl-s-β-thio-propoxyethylphosphorothiolothionate	-	-	Spec, Freq	Popkov	ZOK	29 (1959)	1998
C ₉ H ₂₁ O ₃ P	Tri-isopropyl ester of phosphorous acid	-	-	Spec, Freq	Maarsen	RFC	76 (1957)	713
C ₉ H ₂₁ O ₃ P	Tri-isopropyl phosphite	2-15/μ	Sol	Spec, Freq, I	Bell	AC	25 (1953)	1720
C ₉ H ₂₁ O ₃ FS	Diethylamylthio phosphate	-	-	Freq	Bell	JACS	76 (1954)	5185
C ₉ H ₂₁ O ₃ B	Boron tri-isopropoxide	2-15/μ 2-15/μ	Sol G	Spec, Freq, I Spec, Freq assign	Bell Lehmann	AC JCP	25 (1953) 30 (1959)	1720 1226
C ₉ H ₂₁ O ₃ B	Tri-n-propyl borate	670-1800	S	Spec, Freq	Werner	AJC	8 (1955)	355
C ₉ H ₂₁ O ₄ P	Di-isobutoxyphosphorous acid	600-4000	S	Group study	Braunholtz	JCS	- (1959)	868
C ₉ H ₂₁ O ₄ P	Di-n-butoxyphosphorous acid	600-4000	S	Group study	Braunholtz	JCS	- (1959)	868
C ₉ H ₂₁ O ₄ P	Tri-isopropyl phosphate	-	Sol	Freq	Bergmann	JCS	- (1952)	847
C ₉ H ₂₁ O ₄ P	Tri-n-propyl phosphate	-	Sol	Freq	Bergmann	JCS	- (1952)	847

$C_9H_{21}PS_4$	Tri-n-propyl phosphate tetrathioate	2-25 μ	-	Spec, Struct	Menefee	JOC	22 (1957)	792
$C_9H_{21}PS_4$	Tri-isopropylphosphate tetrathioate	2-25 μ	-	Spec, Struct	Menefee	JOC	22 (1957)	792
$C_9H_{22}NO_2PS$	Di-n-butylmethyl- phosphoramidodithionate	-	-	Freq, Spec	Popkov	ZOK	29 (1959)	1998
$C_9H_{22}OS_1$	Trimethylsilylbutyl ethyl ether	-	-	Inductive effect	Josien	CPR	249 (1959)	826
$C_9H_{22}OS_1$	Trimethylsilylethyl butyl ether	-	-	Inductive effect	Josien	CPR	249 (1959)	826
$C_9H_{22}OS_1$	Trimethylsilylpentyl methyl ether	-	-	Inductive effect	Josien	CPR	249 (1959)	826
$C_9H_{22}O_3S_1$	Tri-isopropoxysilane	2050-2250	Sol	Freq, Struct	Smith	SA	15 (1959)	412
$C_9H_{22}S_1$	Tri-isopropylsilane	-	-	Band freq	George	JACS	77 (1955)	1677
$C_9H_{22}S_1$	Tri-n-propylsilane	600-4000	L	Spec, Assign	Kaplan	JACS	76 (1954)	5880
$C_9H_{22}S_1$	n-Propyltriethylsilane	-	-	Band freq	George	JACS	77 (1955)	5880
$C_9H_{23}NOS_1_2$	Cyclo-N-isopropylidimethyl- aminotetramethyl disiloxane	-	-	No absorption	Moll	JACS	73 (1951)	3871
$C_9H_{23}NO_4Si_4$	Cyanomethylheptamethyl- cycloctetrasiloxane	-	-	Freq	Prober	JACS	77 (1955)	3224
$C_9H_{23}O_4P_3S_3$	Di-(isopropylmethyl- phosphorothionyl)methyl phosphorothioate	600-900	S	Assign	Melvor	CJC	37 (1959)	869
$C_9H_{24}NO_2PS$	Triethylammonium ethylmethylphosphorothioate	740-1500	Sol	Assign	Melvor	CJC	37 (1959)	869

$C_9H_{24}N_2O_2$	D1-(diethyleammonium)-5-nitroaminotetrazole	2-15 μ	S	Spec, Freq	Lieber	AC 23 (1951)	1594
$C_9H_{24}O_6Si_3$	Trimethyltriethoxycyclotrisiloxane	600-3500	L	Spec	Okawara	BCSJ 31 (1958)	154
$C_9H_{24}O_9$	Trimolecular acetone peroxide	5-15 μ	Sol	Spec	Minkoff	PRS 224 (1954)	176
$C_9H_{27}NSi_3$	Tris(trimethylsilyl) amine	-	-	Spec, Assign	Goubean	ZAUA 303 (1960)	217
$C_9H_{28}O_3Si_4$	Tri-trimethylsiloxy silane	2050-2250	Sol	Freq, Struct	Smith	SA 15 (1959)	412
$C_9H_{30}O_4Si_5$	Nonamethylpentasiloxane	600-3500	L	Spec, Freq	Sakiyama	BCSJ 31 (1958)	67
$C_9Cl_4F_{15}I$	1,3,5,7-Tetrachloro-pentadecafluoro-1-iodo-nonane	-	-	Ident	Haszeldine	JCS - (1953)	1592
C_9F_{18}	Hexafluoropropene trimer	-	-	I, Freq, Struct	Haszeldine	JCS - (1953)	3559
C_9F_{18}	Octadecafluorononene	-	-	Freq Freq	Hals Lazerte	JACS 73 (1951) JACS 75 (1953)	4054 4525
$C_{10}H_2Cl_{10}$	1,2,3,3a,4,5,6,7,7a,8-Decachloro-3a,4,7,7a-tetrahydro-4,7-methanoindene	6.19-9.90 μ	Sol	Band freq	Mc Bee	JACS 77 (1955)	4375
$C_{10}H_5Cl_5$	Pentachloronaphthalene	2-15 μ	Sol	Spec	Blickenstaff	AC 26 (1954)	1586

C_{10} COMPOUNDS

$C_{10}H_4D_4$	Naphthalene- α - d_4	300-3300	Sol	Spec, Assign, Freq Freq, Assign, NCA	Mitra Freeman	CJC SA	37 (1959) 16 (1960)	553 1393
$C_{10}H_4D_4$	Naphthalene- β - d_4	-	-	Freq, Assign, NCA	Freeman	SA	16 (1960)	1393
$C_{10}H_4Br_2O_2$	2,3-Dibromo-1,4-naphthoquinone	1600-1800	Sol	Freq	Josien	JCP	21 (1953)	331
$C_{10}H_4Cl_2$	1,10-Dichloro-2,4,6,8-decatetrayne	-	Sol	Group freq, I	Allan	JCS	-	(1955) 1874
$C_{10}H_4Cl_2O_2$	2,3-Dichloro-1,4-naphthoquinone	1600-1800	Sol	Group freq	Josien	JCP	21 (1953)	331
$C_{10}H_4Cl_4$	1,2,3,4-Tetrachloro-naphthalene	660-1650	Sol,S	Substitution effect	Cencelj	SA	7 (1955)	274
$C_{10}H_4Cl_4$	1,2,3,5-Tetrachloro-naphthalene	660-1650	Sol,S	Substitution effect	Cencelj	SA	7 (1955)	274
$C_{10}H_4Cl_4$	1,2,3,7-Tetrachloro-naphthalene	660-1650	Sol,S	Substitution effect	Cencelj	SA	7 (1955)	274
$C_{10}H_4Cl_4$	1,2,4,6-Tetrachloro-naphthalene	660-1650	Sol,S	Substitution effect	Cencelj	SA	7 (1955)	274
$C_{10}H_4Cl_4$	1,3,5,7-Tetrachloro-naphthalene	660-1650	Sol,S	Substitution effect	Cencelj	SA	7 (1955)	274
$C_{10}H_4Cl_4$	1,3,5,8-Tetrachloro-naphthalene	660-1650	Sol,S	Substitution effect	Cencelj	SA	7 (1955)	274
$C_{10}H_4Cl_4$	1,3,6,7-Tetrachloro-naphthalene	660-1650	Sol,S	Substitution effect	Cencelj	SA	7 (1955)	274
$C_{10}H_4Cl_4$	1,4,5,8-Tetrachloro-naphthalene	660-1650	Sol,S	Substitution effect	Cencelj	SA	7 (1955)	274

$C_{10}H_4Cl_4$	1,4,6,7-Tetrachloro-naphthalene	660-1650	Sol,S	Substitution effect	Cencelj	SA	7 (1955)	274
$C_{10}H_5BrO_2$	2-Bromo-1,4-Naphtho-quinone	1600-1800	Sol	Group freq	Josien	JCP	21 (1953)	331
$C_{10}H_5BrO_2$	3-Bromo-1,2-Naphtho-quinone	1600-1800	Sol	Group freq	Josien	JCP	21 (1953)	331
$C_{10}H_5ClO_2$	2-Chloro-1,4-Naphtho-quinone	1600-1800	Sol	Group freq	Josien	JCP	21 (1953)	331
$C_{10}H_5Cl_2NO_3$	4,5-Dichloro-n-acetylisatin	700-4000	Sol	Freq, Assign, Substitution effect	Holt	JCS	- (1958)	1217
$C_{10}H_5Cl_3$	1,2,3-Trichloro-naphthalene	660-1650	Sol,S	Substitution effect	Cencelj	SA	7 (1955)	274
$C_{10}H_5Cl_3$	1,2,4-Trichloro-naphthalene	660-1650	Sol,S	Substitution effect	Cencelj	SA	7 (1955)	274
$C_{10}H_5Cl_3$	1,2,5-Trichloro-naphthalene	660-1650	Sol,S	Substitution effect	Cencelj	SA	7 (1955)	274
$C_{10}H_5Cl_3$	1,2,6-Trichloro-naphthalene	660-1650	Sol,S	Substitution effect	Cencelj	SA	7 (1955)	274
$C_{10}H_5Cl_3$	1,2,7-Trichloro-naphthalene	660-1650	Sol,S	Substitution effect	Cencelj	SA	7 (1955)	274
$C_{10}H_5Cl_3$	1,2,8-Trichloro-naphthalene	660-1650	Sol,S	Substitution effect	Cencelj	SA	7 (1955)	274
$C_{10}H_5Cl_3$	1,3,5-Trichloro-naphthalene	660-1650	Sol,S	Substitution effect	Cencelj	SA	7 (1955)	274

$C_{10}H_5Cl_3$	1,3,6-Trichloro-naphthalene	660-1650	Sol,S	Substitution effect	Cencelj	SA	7 (1955)	274
$C_{10}H_5Cl_3$	1,3,7-Trichloro-naphthalene	660-1650	Sol,S	Substitution effect	Cencelj	SA	7 (1955)	274
$C_{10}H_5Cl_3$	1,3,8-Trichloro-naphthalene	660-1650	Sol,S	Substitution effect	Cencelj	SA	7 (1955)	274
$C_{10}H_5Cl_3$	1,4,5-Trichloro-naphthalene	660-1650	Sol,S	Substitution effect	Cencelj	SA	7 (1955)	274
$C_{10}H_5Cl_3$	1,4,6-Trichloro-naphthalene	660-1650	Sol,S	Substitution effect	Cencelj	SA	7 (1955)	274
$C_{10}H_5Cl_3$	1,6,7-Trichloro-naphthalene	660-1650	Sol,S	Substitution effect	Cencelj	SA	7 (1955)	274
$C_{10}H_5Cl_3$	2,3,6-Trichloro-naphthalene	660-1650	Sol,S	Substitution effect	Cencelj	SA	7 (1955)	274
$C_{10}H_5F_6O_4$	Di-trifluoroacetoxy-phenyl boronate	1500-1800	L	Group freq, Assign	Duncanson	JCS	- (1958)	3652
$C_{10}H_5F_7O$	Heptafluorobutyrophenone	- 650-5000	Sol Sol	Group freq Group freq	Mc Bee Griffin	JACS SA	77 (1955) 16 (1960)	83 1464
$C_{10}H_5N_3O_3$	1-Diazo-4-nitro-2-oxonaphthalene	-	S	Group freq, Band freq	Le Fevre	JCS	- (1954)	4686
$C_{10}H_6$	Dimethyltetraacetylene	-	-	Group freq	Weber	JCP	21 (1953)	1613
$C_{10}H_6DNO_2$	1,2-Naphthoquinone-1-oxime-d ₁	600-1700	S	Spec, Struct, Assign	Hadzi	JCS	- (1956)	2725
$C_{10}H_6DNO_2$	1,2-Naphthoquinone-2-oxime-d ₁	600-1700	S,Sol	Spec, Struct, Assign	Hadzi	JCS	- (1956)	2725

C ₁₀ H ₆ DNO ₂	600-1700	S,Sol	Spec, Struct, Assign	Hadzi	JCS - (1956)	2725
1,4-Naphthoquinone monoxime-d ₁						
C ₁₀ H ₆ BrCl	2-15 μ	-	Spec	Anderson	JACS 75 (1953)	4980
C ₁₀ H ₆ BrNO ₂	-	-	Freq	Anderson	JACS 75 (1953)	4980
C ₁₀ H ₆ BrNO ₃	700-4000	Sol	Freq, Assign, Substitution effect	Holt	JCS - (1958)	1217
C ₁₀ H ₆ Br ₂	2-15 μ	-	Spec, Ident	Anderson	JACS 75 (1953)	4980
C ₁₀ H ₆ Br ₂ N ₄	-	S	Spec	Bogomolov	IANS 23 (1959)	1199
C ₁₀ H ₆ Br ₂ O	6700-7000	Sol	Group freq, Substitution effect	Wolf	JACS 58 (1936)	2287
C ₁₀ H ₆ Br ₂ O ₃	2.5-13 μ	Sol	Spec, Struc, Group freq, Band freq	Stecher	JACS 76 (1954)	503
C ₁₀ H ₆ Br ₂ O ₃	2.5-13 μ	Sol	Spec, Struc, Group freq	Stecher	JACS 76 (1954)	503
C ₁₀ H ₆ ClNO	-	S	Group freq	Hammick	JCS - (1952)	4545
C ₁₀ H ₆ ClNO ₂	630-900	Sol,S	Substitution effect	Cencelj	SA 7 (1955)	274
C ₁₀ H ₆ ClNO ₃	700-4000	Sol	Band freq, Assign, Substitution effect	Holt	JCS - (1958)	1217
C ₁₀ H ₆ ClNO ₃	700-4000	Sol	Band freq, Assign, Substitution effect	Holt	JCS - (1958)	1217

$C_{10}H_6Cl_2$	1,3-Dichloroazulene	2-15 μ	-	Spec	Anderson	JACS 75 (1953)	4980
$C_{10}H_6Cl_2$	1,2-Dichloro-naphthalene	660-1650	Sol, S	Substitution effect	Cencelj	SA 7 (1955)	274
$C_{10}H_6Cl_2$	1,3-Dichloro-naphthalene	660-1650	Sol, S	Substitution effect	Cencelj	SA 7 (1955)	274
$C_{10}H_6Cl_2$	1,4-Dichloro-naphthalene	660-1650	Sol, S	Substitution effect	Cencelj	SA 7 (1955)	274
$C_{10}H_6Cl_2$	1,5-Dichloro-naphthalene	660-1650	Sol, S	Substitution effect	Cencelj	SA 7 (1955)	274
$C_{10}H_6Cl_2$	1,6-Dichloro-naphthalene	660-1650	Sol, S	Substitution effect	Cencelj	SA 7 (1955)	274
$C_{10}H_6Cl_2$	1,7-Dichloro-naphthalene	660-1650	Sol, S	Substitution effect	Cencelj	SA 7 (1955)	274
$C_{10}H_6Cl_2$	1,8-Dichloro-naphthalene	660-1650	Sol	Substitution effect	Cencelj	SA 7 (1955)	274
$C_{10}H_6Cl_2$	2,3-Dichloro-naphthalene	660-1650	Sol, S	Substitution effect	Cencelj	SA 7 (1955)	274
$C_{10}H_6Cl_2$	2,6-Dichloro-naphthalene	660-1650	Sol, S	Substitution effect	Cencelj	SA 7 (1955)	274
$C_{10}H_6Cl_2$	2,7-Dichloro-naphthalene	660-1650	Sol, S	Substitution effect	Cencelj	SA 7 (1955)	274
$C_{10}H_6Cl_2N_4$	2,2'-Azobis-(5-chloropyridine)	-	S	Spec	Bogomolov	IANS 23 (1959)	1199
$C_{10}H_6Cl_2N_4O$	2,2'-Azoxy-bis-(5-chloropyridine)	-	S	Spec	Bogomolov	IANS 23 (1959)	1199
$C_{10}H_6Cl_2O$	2,2-Dichloro-3-phenyl-3-cyclobutenone	-	-	Group freq	Roberts	JACS 75 (1953)	4765

	Chlordan	2-15.5 μ Sol	Spec	Garhart	AC	24 (1952)	851
$C_{10}H_6Cl_8$	6-Fluoro-N-acetyl- isatin	700-7000 Sol	Freq, Assign	Holt	JCS	-	(1958) 1217
$C_{10}H_6N_2$	Benzylidenemalonodinitrile	- Sol	Group freq, I	Felton	JCS	-	(1955) 2170
$C_{10}H_6N_2$	3-Cyanoquinoline	1300-1700 Sol	Freq, Vibration	Katritzky	JCS	-	(1960) 2942
$C_{10}H_6N_2$	4-Cyanoquinoline	1300-1700 Sol	Freq, Vibration	Katritzky	JCS	-	(1960) 2942
$C_{10}H_6N_2$	cis- α,β -Dicyano- styrene	- Sol	Struct Struct	Felton Schneider	JCS JACS	- 77	(1955) 2170 (1955) 2796
$C_{10}H_6N_2$	trans- α,β -Dicyano- styrene	- Sol	Struct Struct	Felton Schneider	JCS JACS	- 77	(1955) 2170 (1955) 2796
$C_{10}H_6N_2O$	Cyanoquinoline-N- oxide	700-3000 -	Spec	Shindo	CPBT	8	(1960) 845
$C_{10}H_6N_2O$	1-Diazo-2-oxo- naphthalene	- S	Group freq	Le Fevre	JCS	-	(1954) 4686
$C_{10}H_6N_2O$	2-Diazo-1-oxo- naphthalene	- S	Group freq	Le Fevre	JCS	-	(1954) 4686
$C_{10}H_6N_2O$	4-Diazo-1-oxo- naphthalene	- S	Group freq	Le Fevre	JCS	-	(1954) 4686
$C_{10}H_6N_2O_4$	1,8-Dinitro- naphthalene	630-900 Sol,S	Substitution effect	Cencelj	SA	7	(1955) 274
$C_{10}H_6N_2O_5$	2,4-Dinitro-1- naphthol	- Sol,L	H bond, Freq	Reeves	CJC	38	(1960) 1249
$C_{10}H_6N_6O_4$	2,2'-Azobis-(5- nitropyridine)	- S	Spec	Bogomolov	IANS	23	(1959) 1199

$C_{10}H_6O_2$	1,2-Naphthoquinone	1600-1800	Sol	Group freq	Josien	JCP 21 (1953)	231
$C_{10}H_6O_2$	1,4-Naphthoquinone	-	S	Band freq	Hadzi	JACS 73 (1951)	5460
		1600-1800	Sol	Vibration	Josien	JCP 21 (1953)	331
		1600-1800	Sol	Group freq	Fuson	JACS 76 (1954)	2526
		2-12 μ	Sol	Spec, Struc	O'Connor	JACS 76 (1954)	2368
		1630-1780	S	Group study	Hadzi	CPR 242 (1956)	1014
$C_{10}H_6O_3$	2-Hydroxy-1,4-naphthoquinone	1600-1800	Sol,S	Group freq	Josien	JCP 21 (1953)	331
		2.7-3.0 μ	Sol	H bond	Baker	JACS 80 (1958)	5358
$C_{10}H_6O_3$	6-Hydroxy-1,2-naphthoquinone	1600-1800	S	Group freq	Josien	JCP 21 (1953)	331
$C_{10}H_6O_3$	1,4-Naphthoquinone-2,3-oxide	1600-1800	Sol	Group freq	Fuson	JACS 76 (1954)	2526
$C_{10}H_6O_3$	Phenylmaleic anhydride	-	S	Group freq	Taylor	JACS 76 (1954)	1872
$C_{10}H_6O_4$	2,3-Dihydroxy-1,4-naphthoquinone	1600-1800	Sol	Group freq	Josien	JCP 21 (1953)	331
$C_{10}H_6O_4$	5,8-Dihydroxy-1,4-naphthoquinone	1600-1800	Sol	Group freq	Josien	JCP 21 (1953)	331
		700-4000	S,Sol	Spec	Hadzi	TFS 50 (1954)	911
$C_{10}H_6O_4$	Furil	-	Sol	Group freq	Cosgrove	JCS - (1952)	4821
$C_{10}H_6O_4$	Phthalidylidene-acetic acid	-	S	Group freq, Tent	Grove	JCS - (1951)	877
$C_{10}H_6O_5$	β -Carboxymethyl-tropolone- α -carboxylic acid anhydride	6 μ	S	Band freq	Crow	JCS - (1952)	3705
$C_{10}H_6O_8$	Mellephanic acid	2-15 μ 10-15 μ	S S	Spec, Freq assign Spec, Analysis	Gonzalez Nicholson	SA 12 (1958) AC 31 (1959)	17 519

$C_{10}H_6O_8$	Prehnitic acid	2-15 μ 10-15 μ	S S	Spec, Freq assign Spec, Analysis	Gonzalez Nicholson	SA AC	12 (1958) 31 (1959)	17 519
$C_{10}H_6O_8$	Pyromellitic acid	2-15 μ 10-15 μ	S S	Spec, Freq assign Spec, Analysis	Gonzalez Nicholson	SA AC	12 (1958) 31 (1959)	17 519
$C_{10}H_7DO_2S$	Naphthalene-2- sulphinic acid-d ₁	700-3300	S	Struc, Assign, H bond, Spect	Detoni	JCS	-	(1955) 3162
$C_{10}H_7Br$	1-Bromonaphthalene	-	-	Freq, Ident	Anderson	JACS	75	(1953) 4980
$C_{10}H_7Br$	α -Bromonaphthalene	0.8-2.0 μ 22-39 μ	L L	Magnetic rotation Absorption freq	Ingersoll Plyler	JOSA JCP	6 17	(1922) 663 (1949) 218
$C_{10}H_7Br$	β -Bromonaphthalene	400-1400 650-1000	Sol,L Sol,S	Band freq, I Substitution effect	Ferguson Ferguson Wang	JCS SA	- 15	(1954) 304 (1954) 3645 (1959) 1118
$C_{10}H_7BrClNO_2$	4-Chloro-5-bromo- 1-acetyloxy	400-1400 650-1000	Sol,S Sol,S	Ident, Freq Band freq, I Substitution effect	Danish Ferguson Wang	JACS JCS SA	76 - 15	(1954) 6144 (1954) 3645 (1959) 1118
$C_{10}H_7BrClNO_2$	4-Chloro-5-bromo- indoxyl acetate	700-4000	Sol	Assign, Substitution effect	Holt	JCS	-	(1958) 1217
$C_{10}H_7Br_3N_2$	β -Naphthylamine diazoperbromide	700-4000	Sol,S	Freq, Struc, Assign, H bond	Holt	JCS	-	(1958) 1217
$C_{10}H_7Cl$	1-Chloronaphthalene	1350-3250	-	Band freq, Group freq	Aroney	JCS	-	(1955) 1630
$C_{10}H_7Cl$	α -Chloronaphthalene	-	-	Freq	Anderson	JACS	75	(1953) 4980
$C_{10}H_7Cl$	β -Chloronaphthalene	400-1400	Sol,L	Band freq, H bond Ident Band freq Band freq, I	Tamres Baker Ferguson Ferguson	JACS AC JCS JCS	74 25 - -	(1952) 3375 (1953) 1457 (1954) 304 (1954) 3645
$C_{10}H_7Cl$	β -Chloronaphthalene	400-1400	Sol,S	Band freq, I Ident Substitution effect	Ferguson Parham Wang	JCS JACS SA	- 77 15	(1954) 3645 (1955) 1177 (1959) 1118

$C_{10}H_7ClN_2O_6$	2-Chloroallyl alcohol 3,5-dinitrobenzoate	-	-	Ident, Struc	Woland	JACS 77 (1955) 3395
$C_{10}H_7ClO_3$	1-p-Chlorobenzoyl-2- carboxy-trans- ethylene	Sol	-	Group freq, Spec	Potts	SA 15 (1959) 679
$C_{10}H_7Cl_2NO_2$	4,5-Dichloroindoxyl acetate	Sol,S	700-4000	Freq, Struc, Assign, H bond	Holt	JCS - (1958) 1217
$C_{10}H_7Cl_4NO_2$	Tetrachlorohydro- quinone 2-cyano-2- propyl ether	-	-	Ident	Hammond	JACS 77 (1955) 3249
$C_{10}H_7F$	α -Fluoronaphthalene	-	-	Band freq Band freq, I Substitution effect	Ferguson Ferguson Wang	JCS - (1954) 304 JCS - (1954) 3645 SA 15 (1959) 1118
$C_{10}H_7F$	β -Fluoronaphthalene	Sol,S Sol,S	400-1400 650-1000	Band freq, I Substitution effect	Ferguson Wang	JCS - (1954) 3645 SA 15 (1959) 1118
$C_{10}H_7F_3O_3$	Phenylacetyl- trifluoroacetate	- - Sol	- - 1000-1250	Group freq, Ident Group freq Band freq, Ident	Emmons Ferris Bourne	JACS 75 (1953) 6047 JACS 75 (1953) 232 JCS - (1954) 2006
$C_{10}H_7F_3O_4$	O-Methoxybenzoyl trifluoroacetate	-	-	Group freq	Ferris	JACS 75 (1953) 232
$C_{10}H_7I$	α -Iodonaphthalene	- Sol,L Sol,S	- 400-1400 650-1000	Band freq Band freq, I Substitution effect	Ferguson Ferguson Wang	JCS - (1954) 304 JCS - (1954) 3645 SA 15 (1959) 1118
$C_{10}H_7I$	β -Iodonaphthalene	Sol,S	400-1400	Band freq, I	Ferguson	JCS - (1954) 3645
$C_{10}H_7NO$	4-Formylquinoline	Sol	1300-1700	Vibration freq	Katritzky	JCS - (1960) 2945
$C_{10}H_7NO$	6-Formylquinoline	Sol	1300-1700	Vibration freq	Katritzky	JCS - (1960) 2945

$C_{10}H_7NO$				Freq	Luttk	ZE	61 (1957)	976
1-Nitrosaphthalene	-	-	-	Group freq	Josien	JCP	21 (1953)	331
2-Amino-1,4-naphthoquinone	1600-1800	Sol		Group freq	Josien	JCP	21 (1953)	331
4-Amino-1,2-naphthoquinone	1600-1800	Sol		Group freq	Flett	JCS	- (1951)	962
2-Carboxyquinoline	700-4000	S,L		Group freq	Barr	JACS	74 (1952)	4430
	2-15 μ	-		Spec	Hamick	JCS	- (1952)	4545
	-	S		Group freq	Witkop	JACS	75 (1953)	2572
	600-4000	S		Group study	Braunholtz	JCS	- (1953)	868
Cinchonic acid	1500-4000	S		Group study	Braunholtz	JCS	- (1959)	868
2-Formylquinoline-N-oxide	700-3000	-		Spec	Shindo	CPBT	8 (1960)	845
5-Formyl-8-hydroxyquinoline	3300-3400	Sol		Freq, H bond	Badger	JCS	- (1958)	3437
1,2-Naphthoquinone-1-oxime	600-1700	S		Spec, Struct, Assign	Hadzi	JCS	- (1956)	2725
1,2-Naphthoquinone-2-oxime	600-1700	S,Sol		Spec, Struct, Assign	Hadzi	JCS	- (1956)	2725
1,4-Naphthoquinone monoxime	600-1700	S,Sol		Spec, Struct, Assign	Hadzi	JCS	- (1956)	2725
1-Nitroazulene	-	-		Freq	Anderson	JACS	75 (1953)	4980
α -Nitronaphthalene	2.5-10 μ	Sol		Spec	Stang	PR	9 (1917)	542
	1350	Sol		Freq, H bond	Hathaway	TFS	45 (1949)	818
	650-1000	Sol,S		Substitution effect	Wang	SA	15 (1959)	1118
β -Nitronaphthalene	1350	Sol		Freq, H bond	Hathaway	TFS	45 (1949)	818
	-	-		Ident	Danish	JACS	76 (1954)	6144

$C_{10}H_7NO_2$	1-Nitroso-2-naphthol	-	Sol	Group study H bond	Amstutz Boll	JACS 73 (1951) ACS 12 (1958)	1220 1777
$C_{10}H_7NO_2 \cdot HCl$	Quinaldinic acid hydrochloride	3000-3500	Sol, S	Group freq	Hamrick	JCS - (1952)	4545
$C_{10}H_7NO_3$	N-Acetylisatin	700-4000	Sol	Freq assign, Substitution effect	Holt	JCS - (1958)	1217
$C_{10}H_7NO_3$	2-Benzylideneoxazolidine-4,5-dione	2-16 μ	-	Spec, Struc, Group study	Skinner	JACS 75 (1953)	977
$C_{10}H_7NO_3$	4-Hydroxy-3-quinoline- carboxylic acid	-	S	Ident	Bernstein	JACS 76 (1954)	2760
$C_{10}H_7NO_3$	4-Methylcarbostryll- 5,6-quinone	-	-	Ident, Group study	Holmes	JACS 76 (1954)	2400
$C_{10}H_7NO_3$	1-Nitro-2-naphthol	3000-3500	-	Group freq H bond	Amstutz Boll	JACS 73 (1951) ACS 12 (1958)	1220 1777
$C_{10}H_7NO_3$	2-Nitro-1-naphthol	630-900	Sol, S	Freq, H bond	Reeves	CJC 38 (1960)	1249
$C_{10}H_7NO_3$	4-Phenylpyrrolidine- trione	2-16 μ	-	Substitution effect	Cencelj	SA 7 (1955)	274
$C_{10}H_7NO_4$	7-Carbomethoxyisatin	-	-	Group freq, Spec	Skinner	JACS 75 (1953)	977
$C_{10}H_7NO_4$	4-Carboxy-7-methoxy- isatin	1500-3500	Sol, S	Spec	Grandon	JACS 74 (1952)	2637
$C_{10}H_7NO_4$	5-Carboxymethyl- isatin	1500-3500	Sol, S	Freq assign, Struct	Sadler	JCS - (1959)	667
$C_{10}H_7NO_3$	2,3-Naphthotriazole	-	S	Freq assign, Struc	Sadler	JCS - (1959)	667
$C_{10}H_7N_3O_3S \cdot H_2O$	2-Amino-8-nitro-4H-triazolo [5,4-c] benzopyran hydrate	-	S	Band freq, H bond	O'Sullivan	JCS - (1960)	3653
		-	-	Band freq	Hurd	JACS 76 (1954)	5065

$C_{10}H_7N_3O_4$	3,5-Dinitro-1-naphthylamine	7.5-15 μ	S	Ident	Ward	JCS - (1954)	4541
$C_{10}H_7N_3O_4$	3,8-Dinitro-1-naphthylamine	7.5-15 μ	S	Ident	Ward	JCS - (1954)	4541
$C_{10}H_8$	Azulene	700-2100	-	Spec, Group study	Gordon	CR	50 (1952)
		-	-	Ident	Deering	JACS	75 (1953)
		-	-	Vibration analysis	Sidman	JCP	24 (1956)
		-	-	Freq assign, I	Hunt	JMS	3 (1959)
$C_{10}H_8$	Benzofulvene	1250-4000	Sol	Spec	Wood	AC	30 (1958)
$C_{10}H_8$	Naphthalene	2.5-10 μ	Sol	Spec	Stang	PR	9 (1917)
		1-12 μ	L	Spec	Bell	JACS	47 (1925)
		2.6-3.8 μ	Sol	Spec	Fox	JCS -	(1939)
		3.2-3.4 μ	Sol	Group study	Wall	JACS	62 (1940)
		1150-1800	-	Spec	Barnes	IEC	15 (1943)
		-	-	Spec	Couture	JCP	15 (1947)
		-	-	FC	Ceulson	PRS	193 (1948)
		8000-9000	Sol	Group study	Hibbard	AC	21 (1949)
		9-14 μ	Sol	Spec	Armstrong	JCS -	(1950)
		-	Sol	Assign	Corrsin	PR	79 (1950)
		-	-	Assign, Thermo	Barrow	JACS	73 (1951)
		670-2040	Sol,S	Spec	Cannon	SA	4 (1951)
		787	G,S	Spec	Pimentel	JCP	19 (1951)
		615-645	S	Spec	Person	JCP	20 (1952)
		3-22 μ	L,G,S	Spec, Freq	Pimentel	JCP	20 (1952)
		-	G	Spec, Assign	Schnepp	JCP	20 (1952)
		-	Sol	Analysis, Calibration	Williams	AC	24 (1952)
		-	-	Band freq, Ident	Hochstein	JACS	75 (1953)
		12.5-13 μ	Sol	Band freq	Klein	AC	25 (1953)
		640-1400	Sol	Halogen addition	Haller	JCP	22 (1954)
		-	-	Vibration assign	Mc Clure	JCP	22 (1954)
		-	-	Ident	Blomginst	JACS	77 (1955)
		-	-	Freq, Table	Coulson	JCS -	(1955)
		350-3800	Sol	Spec, Assign	Lippincott	JCP	23 (1955)
		-	-	Assign, Thermo	Mc Clellan	JCP	23 (1955)

-	S	Assign	Mc Clure	JCP	23	(1955)	1575
130-3500	G,S	Spec, Assign	Person	JCP	23	(1955)	230
-	S	Spec	Pimentel	JCP	23	(1955)	234
670-900	S,L	Substitution effect, H bond	Werner	AJC	8	(1955)	346
3-4/ μ	L,Sol	Group study	Tallent	AC	28	(1956)	953
650-105C	-	Freq	Scully	JMS	1	(1957)	257
-	S	Group study	Wiberly	AC	29	(1957)	210
-	Sol,S	Freq, Assign	Bruhn	ZE	62	(1958)	441
-	G,S,L, Sol	Freq	Fialkovskaya	IANS	22	(1958)	1093
15-35/ μ	S	Spec, Struc	Bentley	SA	15	(1959)	165
10-100/ μ	S	Freq	Fialkovskaya	IANS	23	(1959)	62
12.8/ μ	L	Ident	Curry	AC	31	(1959)	960
780	Sol	Band freq, I	La Iau	SA	14	(1959)	181
300-330C	Sol	Spec, Freq, Assign	Mitra	CJC	37	(1959)	553
-	-	FC	O'Connell	DA	19	(1959)	1582
-	-	NCA, Assign	Sverdlow	OS	7	(1959)	460
-	-	Freq assign, NCA	Freeman	SA	16	(1960)	1393
5-15/ μ	S	Freq, I	Lippincott	SA	16	(1960)	58
-	-	NCA	Scully	SA	16	(1960)	1409
-	-	Spec, FC	Zhirnov	OS	9	(1960)	734
700-4000	Sol	Substitution effect	Holt	JCS	-	(1958)	1217
700-4000	Sol	Substitution effect	Holt	JCS	-	(1958)	1217
700-5400	Sol,S	Freq, Struc, H bond, Assign	Holt	JCS	-	(1958)	1217
700-4000	Sol,S	Freq, Struc, H bond, Assign	Holt	JCS	-	(1958)	1217
700-4000	Sol,S	Freq, Struc, H bond	Holt	JCS	-	(1958)	1217
700-4000	Sol,S	Freq, Struc, H bond	Holt	JCS	-	(1958)	1217

			Ident	Rutherford	JACS	77 (1955)	3278
$C_{10}H_8Br_2O$	2,2-Dibromo- α -tetralone	-					
$C_{10}H_8ClNO_2$	4-Chloro-1-acetyl-indoxyl	700-4000 Sol	Substitution effect	Holt	JCS	- (1958)	1217
$C_{10}H_8ClNO_2$	5-Chloro-1-acetyl-indoxyl	700-4000 Sol	Substitution effect	Holt	JCS	- (1958)	1217
$C_{10}H_8ClNO_2$	6-Chloro-1-acetyl-indoxyl	700-4000 Sol	Substitution effect	Holt	JCS	- (1958)	1217
$C_{10}H_8ClNO_2$	4-Chloroindoxyl-acetate	700-4000 Sol,S	Freq assign, Struc, H bond	Holt	JCS	- (1958)	1217
$C_{10}H_8ClNO_2$	5-Chloroindoxyl acetate	700-4000 S,Sol	Freq assign, Struc, H bond	Holt	JCS	- (1958)	1217
$C_{10}H_8ClNO_2$	6-Chloroindoxyl acetate	700-4000 S,Sol	Freq, Assign, Struc, H bond	Holt	JCS	- (1958)	1217
$C_{10}H_8ClNO_2$	7-Chloroindoxyl acetate	700-4000 S,Sol	Freq assign, Struc, H bond	Holt	JCS	- (1958)	1217
$C_{10}H_8ClNO_4$	2-Chloroallyl alcohol -nitrobenzoate	-	Ident, Struc	Noland	JACS	77 (1955)	3395
$C_{10}H_8ClNS$	7-Chloro-4-methyl-2-quinoline-thiol	2-16 μ S	Spec	Harman	JACS	71 (1949)	3733
$C_{10}H_8Cl_2O$	2,2-Dichloro- α -tetralone	-	Ident Group freq, Substitution effect	Rutherford Stevens	JACS JACS	77 (1955) 77 (1955)	3278 4590
$C_{10}H_8Cl_3NO_2$	2,3,5-Trichloro-6-(2-dimethylamino-vinyl)quinone	2200-8000 Sol	Band freq	Buckley	JCS	- (1957)	4891

$C_{10}H_8Cl_3NO_3$	2,3,5-Trichloro-6-morpholino-p-benzoquinone	2200-8000	Sol	Band freq	Buckley	JCS - (1957)	4891
$C_{10}H_8FNO_2$	5-Fluoro-1-acetylindoxyl	700-4000	Sol	Freq assign, Substitution effect	Holt	JCS - (1958)	1217
$C_{10}H_8FNO_2$	5-Fluoroindoxyl acetate	700-4000	S,Sol	Struc, Freq, H bond	Holt	JCS - (1958)	1217
$C_{10}H_8FNO_2$	6-Fluoroindoxyl acetate	700-4000	S,Sol	Struc, Freq, Hbond	Holt	JCS - (1958)	1217
$C_{10}H_8F_3NO_2$	N-Acetyl-N-trifluoroacetylaniline	-	Sol	Group freq	Bourne	JCS - (1952)	4014
$C_{10}H_8F_{12}$	1,1,1,8,8,8-Hexafluoro-4,6-bistrifluoromethyl-2-octene	-	-	Group freq	Haszeldine	JCS - (1952)	2504
$C_{10}H_8INO_2$	5-Iodo-1-acetylindoxyl	700-4000	Sol	Band freq, Substitution effect	Holt	JCS - (1958)	1217
$C_{10}H_8INO_2$	6-Iodo-1-acetylindoxyl	700-4000	Sol	Substitution effect	Holt	JCS - (1958)	1217
$C_{10}H_8INO_2$	4-Iodoindoxyl acetate	700-4000	S,Sol	Freq, Struct, H bond	Holt	JCS - (1958)	1217
$C_{10}H_8INO_2$	5-Iodoindoxyl acetate	700-4000	S,Sol	Freq, Struct, H bond	Holt	JCS - (1958)	1217
$C_{10}H_8INO_2$	6-Iodoindoxyl acetate	700-4000	S,Sol	Freq, Struct, H bond	Holt	JCS - (1958)	1217
$C_{10}H_8INO_2$	7-Iodoindoxyl acetate	700-4000	S,Sol	Freq, Struct, H bond	Holt	JCS - (1958)	1217
$C_{10}H_8N_2$	2,2'-Bipyridine	600-2000	S	Spec	Schilt	JINC 9 (1959)	211
$C_{10}H_8N_2.HClO_4$	2,2'-Bipyridine perchlorate	600-2000	S	Spec	Schilt	JINC 9 (1959)	211

$C_{10}H_8N_2$	α, β -Dipyridyl	1-7 μ	L	Spec	JOSA 23 (1933)	92
$C_{10}H_8N_2$	4,4' -Dipyridyl	-	Sol	Ident	JACS 76 (1954)	3622
$C_{10}H_8N_2$	3-Indolylacetone nitrile	700-3500	L	Spec, Group freq, Band freq	JCS - (1953)	3796
$C_{10}H_8N_2O$	4-Carbamoylquinoline	1300-1700	Sol	Freq	JCS - (1960)	2942
$C_{10}H_8N_2O$	1-Diazo-4-phenyl-3-butenone-2	2-12.5 μ	Sol	Spec	JOC 20 (1955)	210
$C_{10}H_8N_2O_2$	Furfural azine	1400-2000	Sol	Spec	JACS 70 (1948)	194
$C_{10}H_8N_2O_2$	3-Imino-4-phenylpyrrolidine-2,5-dione	2-16 μ	-	Freq, Struc, Spec	JACS 75 (1953)	977
$C_{10}H_8N_2O_2$	2-Phenyl-4,6-dihydroxypyrimidine	650-3600	S	Group study, Freq, Struc	SA 8 (1956)	9
$C_{10}H_8N_2O_2$	1-Nitro-2-amino-naphthalene	1350-3500	Sol	Group study, Freq, H bond	TFS 45 (1949)	818
$C_{10}H_8N_2O_2$	1-Nitro-7-amino-naphthalene	1250-3600 3000-3600	Sol Sol	Freq, H bond Freq	AJC 11 (1958) AJC 11 (1958)	513 529
$C_{10}H_8N_2O_2$	1-Nitro-7-amino-naphthalene	630-900	S, Sol	Substitution effect	SA 7 (1955)	274
$C_{10}H_8N_2O_2$	2-Nitro-1-amino-naphthalene	1350-3500 1250-3600 3000-3600	Sol Sol Sol	Group freq, H bond Freq, H bond Freq	TFS 45 (1949) AJC 11 (1958) AJC 11 (1958)	818 513 529
$C_{10}H_8N_2O_2$	3-Nitro-1-amino-naphthalene	1350-3500	Sol	Group freq, H bond	TFS 45 (1949)	818
$C_{10}H_8N_2O_2$	3-Nitro-2-amino-naphthalene	1250-3000	Sol	Group freq, H bond	TFS 45 (1949)	818

$C_{10}H_8N_2O_2$	4-Nitro-2-amino-naphthalene	1350-3000	Sol	Group freq, H bond	Hathaway	TFS	45 (1949)	818
$C_{10}H_8N_2O_2$	5-Nitro-1-amino-naphthalene	1350-3000	Sol	Group freq, H bond	Hathaway	TFS	45 (1949)	818
$C_{10}H_8N_2O_2$	5-Nitro-2-amino-naphthalene	1350-3000	Sol	Group freq, H bond	Hathaway	TFS	45 (1949)	818
$C_{10}H_8N_2O_2$	6-Nitro-1-amino-naphthalene	1350-3000	Sol	Group freq, H bond	Hathaway	TFS	45 (1949)	818
$C_{10}H_8N_2O_2$	7-Nitro-2-amino-naphthalene	1350-3500	Sol	Group freq, H bond	Hathaway	TFS	45 (1949)	818
$C_{10}H_8N_2O_2$	8-Nitro-1-amino-naphthalene	1350-3500	Sol	Group freq, H bond	Hathaway	TFS	45 (1949)	818
$C_{10}H_8N_2O_2$	8-Nitro-2-amino-naphthalene	1350-3000	Sol	Group freq, H bond	Hathaway	TFS	45 (1949)	818
$C_{10}H_8N_2O_3$	4-Amino-7-methylisatin	1500-3500	S, Sol	Freq assign, Struct	Sadler	JCS	- (1959)	667
$C_{10}H_8N_2O_3 \cdot 1/2 H_2O$	2-Phenyl-4,5,6-trihydroxypyrimidine semihydrate	650-3600	S	Group study, Struct	Tanner	SA	8 (1956)	9
$C_{10}H_8O_3S_2$	3-p-Nitrobenzoyl-2-thiothiazolidone	-	-	Group freq	Clapp	JACS	75 (1953)	1490
$C_{10}H_8N_2O_4$	5-Nitro-1-acetylindoxyl	700-4000	Sol	Freq, Substitution effect	Holt	JCS	- (1958)	1217
$C_{10}H_8N_2O_4$	6-Nitro-1-acetylindoxyl	700-4000	Sol	Freq, Substitution effect	Holt	JCS	- (1958)	1217

$C_{10}H_8N_2O_4$	5-Nitro-N-acetyl-oxindole	700-4000	Sol	Freq, Substitution effect	Holt	JCS	(1958)	1217
$C_{10}H_8N_2O_6$	2-Acetoxy-2,6-dinitrostyrene	5.58-11.82 μ	Sol	Table, Group freq, I	Eka	JACS	76 (1954)	5579
$C_{10}H_8N_2S$	5-Thioformamidoquinoline	1300-1700	Sol	Stretching freq	Katritzky	JCS	(1960)	2942
$C_{10}H_8N_2S$	8-Thioformamidoquinoline	1300-1700	Sol	Stretching freq	Katritzky	JCS	(1960)	2942
$C_{10}H_8N_4$	2,2'-Azopyridine	600-1800	S	Spec, Assign	LeFevre	AJC	6 (1953)	341
$C_{10}H_8N_4O_8$	Oxalacetic acid-2,4-dinitrophenylhydrazone	1400-1800 1300-3400	-	Ident Spec, Struct	Drew Isherwood	JACS N	74 (1952) 175 (1955)	1852 419
$C_{10}H_8O$	α -Naphthol	2.5-10 μ 2.5-3.1 μ 1600-3700 2.5-15 μ 2.84 μ 8-13 μ - - 3 μ 3570-3700 650-1000	Sol Sol Sol Sol Sol S Sol Sol Sol Sol Sol Sol,S	Spec, Solvent effect H bond Spec Spec, Band freq, I Anal Struct Freq Freq Freq, H bond Freq, I Substitution effect	Stang Gordy Hunsberger Friedel Simard Klemm Goulden Bavin Flett Flynn Wang	PR JACS JACS JACS AC JACS SA CJC SA AJC SA	9 (1917) 62 (1940) 72 (1950) 73 (1951) 23 (1951) 76 (1954) 6 (1954) 35 (1957) 10 (1958) 12 (1959) 15 (1959)	542 497 5626 2881 1384 1688 129 1555 21 575 1118
$C_{10}H_8O$	β -Naphthol	2.5-10 μ 1100-1700 1600-3700 2.5-15 μ 2.84 μ - - 3 μ	Sol - Sol Sol Sol Sol Sol	Spec, Solvent effect Spec Spec Spec, Band freq, I Ident Group freq Group freq, H bond	Stang Burnes Hunsberger Friedel Simard Goulden Bavin Flett	PR IEC JACS JACS AC SA CJC SA	9 (1917) 15 (1943) 72 (1950) 73 (1951) 23 (1951) 6 (1954) 35 (1957) 10 (1958)	542 659 5626 2881 1384 129 1555 21

$C_{10}H_8O$	3570-3700 600-1000	Sol Sol, S	Freq, I Substitution effect	Flynn Wang	AJC SA	12 (1959) 15 (1959)	575 1118
$C_{10}H_8OS$	-	L	Freq	Henbest	JCS	-	(1952) 4536
$C_{10}H_8OS$	2.5-15 μ	Sol	Spec	Farrar	JACS	72 (1950)	4433
$C_{10}H_8OS$	2.5-15 μ	Sol	Spec	Ferrari	JACS	72 (1950)	4433
$C_{10}H_8OS$	-	Sol	Group study, Freq	Kosak	JACS	76 (1954)	4450
$C_{10}H_8OS$	-	Sol	Freq, Group study	Kosak	JACS	76 (1954)	4450
$C_{10}H_8OS_2$	-	-	Freq	Parham	JACS	76 (1954)	4957
$C_{10}H_8O_2$	6500-7200	Sol	Band freq	Wulf	JACS	58 (1936)	2287
$C_{10}H_8O_2$	-	Sol	Group freq, I	Allan	JCS	-	(1955) 1874
$C_{10}H_8O_2$	1550-1850	Sol	Freq, I	Jones	CJC	37 (1959)	2007
$C_{10}H_8O_2$	-	Sol	Freq	Ramirez	JACS	77 (1955)	3768
$C_{10}H_8O_2S$	700-3300	S	Struct assign, Spec, H bond	Detoni	JCS	-	(1955) 3163
$C_{10}H_8O_2S$	600-4000	S	Freq	Braunholtz	JCS	-	(1959) 868
$C_{10}H_8O_3$	2-15 μ	S, Sol	Struc, Spec	Farmer	SA	15 (1959)	870

$C_{10}H_8O_3S$	Naphthalene- β -sulfonic acid	-	S	Spec, Ident	Kalkwarf	AC	26 (1954)	191
$C_{10}H_8O_4$	Dimethyl trans-2-octen-4,6-diyne-1,8-dioate	-	Sol	Group freq, I	Allan	JCS	-	(1955) 1874
$C_{10}H_8O_4$	4-Hydroxy-6-methoxycoumarin	2-15 μ	S,Sol	Struc, Spec	Farmer	SA	15	(1959) 870
$C_{10}H_8O_4$	4-Hydroxy-7-methoxycoumarin	2-15 μ	S,Sol	Struc, Spec	Farmer	SA	15	(1959) 870
$C_{10}H_8O_4$	Phenylmaleic acid	-	S	Group freq	Taylor	JACS	76	(1954) 1872
$C_{10}H_8O_4 \cdot \frac{1}{2}H_2O$	Phenylmaleic acid, semihydrate	-	S	Group freq	Taylor	JACS	76	(1954) 1872
$C_{10}H_8O_4$	1,2,3,4-Tetrahydro-5,8-dihydroxy-1,4-dioxonaphthalene	-	Sol	H bond	Farmer	JCS	-	(1956) 3600
$C_{10}H_8O_5$	Norisogladolic acid	-	Sol	Group freq, Struc	Duncanson	JCS	-	(1953) 3637
$C_{10}H_8O_7$	3-Methoxybenzene-1,2,4-tricarboxylic acid	-	-	Freq, Ident	Gardner	JCS	-	(1954) 1817
$C_{10}H_8O_7$	4-Methoxybenzene-1,2,3-tricarboxylic acid	-	-	Freq	Gardner	JCS	-	(1954) 1817
$C_{10}H_8O_7$	5-Methoxybenzene-1,2,3-tricarboxylic acid	-	-	Freq	Gardner	JCS	-	(1954) 1817
$C_{10}H_8O_7$	5-Methoxybenzene-1,2,4-tricarboxylic acid	-	-	Freq	Gardner	JCS	-	(1954) 1817

$C_{10}H_8O_7$	6-Methoxybenzene-1,2,4-tricarboxylic acid	-	-	Freq	Gardner	JOS - (1954)	1817
$C_{10}H_8S$	2-Naphthalenethiol	2-16 μ	S	Spec	Haunon	JACS 71 (1949)	3733
$C_{10}H_8S$	2-Phenylthiophene	800-2000	Sol	I	Katritzky	JCS - (1959)	3500
$C_{10}H_9BrN_2O_6$	1-Bromo-2-propanol 3,5-dinitrobenzoate	-	Sol	Spec	Stewart	JACS 76 (1954)	1259
$C_{10}H_9BrN_2O_6$	2-Bromo-1-propanol 3,5-dinitrobenzoate	-	Sol	Spec	Stewart	JACS 76 (1954)	1259
$C_{10}H_9BrN_4O_4$	2-Bromocyclobutanone-2,4-dinitrophenylhydrazone	-	-	Band freq	Ramire	JACS 76 (1954)	491
$C_{10}H_9BrO_3$	p-Bromophenacyl acetate	-	-	Ident	Wagner	JACS 75 (1953)	4684
$C_{10}H_9BrO_3$	Methyl o-bromoacetylbenzoate (normal ester)	-	-	Band freq	Boyer	JACS 75 (1953)	2683
$C_{10}H_9BrO_3$	Methyl o-bromoacetylbenzoate (pseudo ester)	-	-	Band freq	Boyer	JACS 75 (1953)	2683
$C_{10}H_9BrO_4$	Methyl 4-bromo-3-methoxy-5-oxocycloheptatriene-carboxylate	767-1730	S	Table, I	Johns	JCS - (1954)	198
$C_{10}H_9ClN_2O_5$	p-Nitrobenzyl N-chloroacetyl-carbamate	650-4000	Sol	Spec	Planka	JCS - (1960)	983

	Chemical Formula	Chemical Name	Sol	Spec	Stewart	JACS	76 (1954)	1259
$C_{10}H_{19}ClN_2O_6$	-	1-Chloro-2-propanol 3,5-dinitrobenzoate	-	-	Stewart	JACS	76 (1954)	1259
$C_{10}H_{19}ClN_2O_6$	-	2-Chloro-1-propanol 3,5-dinitrobenzoate	Sol	Spec	Stewart	JACS	76 (1954)	1259
$C_{10}H_{19}ClO$	-	2-Chloro- α -tetralone	-	Ident Bond freq	Rutherford Stevens	JACS	77 (1955)	3278
$C_{10}H_{19}ClO_2$	-	4-Chloro-7-hydroxy- 3-methylindanone	Sol	H bond, Chelation effect	Farmer	JCS	-	(1956) 3600
$C_{10}H_{19}ClO_3$	-	5-Chloro-8-hydroxy- 7-methoxyindanone	Sol	H bond, Chelation effect	Farmer	JCS	-	(1956) 3600
$C_{10}H_{19}ClO_3$	-	4-Chloro-7-methoxy- 3-methylphthalide	-	Ident	Kushner	JACS	74 (1952)	3710
$C_{10}H_{19}ClO_4$	-	4-Chloro-3-hydroxy- 7-methoxy-3-methyl- phthalide	-	Ident Group study	Kushner Boothe	JACS	74 (1952)	3710
$C_{10}H_{19}FN_4O_6$	900-1145	2,4-Dinitrophenyl- hydrazone of methyl fluoropyruvate	S	Freq, H bond	Bergmann	JCS	-	(1956) 1519
$C_{10}H_{19}FN_4O_6$	900-1220	N-Methyl-2,4-dinitro- phenylhydrazone of fluoropyruvic acid	S	Freq, H bond	Bergmann	JCS	-	(1956) 1519
$C_{10}H_{19}F_3N_4O_4$	-	1,1,1-Trifluoro- butan-2-one-2,4- dinitrophenyl- hydrazone	-	Ident	Haszeldine	JCS	-	(1954) 1261
$C_{10}H_{19}F_3N_4O_4$	-	4,4,4-Trifluoro- butan-2-one-2,4- dinitrophenyl- hydrazone	-	Ident	Haszeldine	JCS	-	(1954) 1261

$C_{10}H_9F_{12}I$	1,1,1,8,8,8-Hexafluoro-2-iodo-4,6-bis-trifluoromethyl-octane	-	-	Struc	Haszeldine	JCS - (1952)	2504
$C_{10}H_9F_{12}I$	1,1,1,4,4,4-Hexafluoro-2-(3,3,3-trifluoro-2'-[3",3",3"-trifluoro-2"-iodo-propyl]propyl)butane	-	-	Struc, Inolic	Haszeldine	JCS - (1952)	2504
$C_{10}H_9IM_2O_6$	1-Iodo-2-propanol 3,5-dinitrobenzoate	-	Sol	Spec	Stewart	JACS 76 (1954)	1259
$C_{10}H_9IM_2O_6$	2-Iodo-1-propanol 3,5-dinitrobenzoate	-	Sol	Spec	Stewart	JACS 76 (1954)	1259
$C_{10}H_9N$	Cyclooctatetraenyl-acetonitrile	2-16/ μ	L	Spec, Bond freq	Cope	JACS 76 (1954)	4945
$C_{10}H_9N$	Cycloocta-2,4,6(or 7)-trienylidene-acetonitrile	2-16/ μ	L	Spec, Bond freq	Cope	JACS 76 (1954)	4945
$C_{10}H_9N$	2-Methylquinoline	1300-1700	Sol	Stretching freq	Katritzky	JCS - (1960)	2942
$C_{10}H_9N$	3-Methylquinoline	1300-1700	Sol	Stretching freq	Katritzky	JCS - (1960)	2942
$C_{10}H_9N$	4-Methylquinoline	1300-1700	Sol	Stretching freq	Katritzky	JCS - (1960)	2942
$C_{10}H_9N$	5-Methylquinoline	1300-1700	Sol	Stretching freq	Katritzky	JCS - (1960)	2942
$C_{10}H_9N$	6-Methylquinoline	1300-1700	Sol	Stretching freq	Katritzky	JCS - (1960)	2942
$C_{10}H_9N$	7-Methylquinoline	1300-1700	Sol	Stretching freq	Katritzky	JCS - (1960)	2942
$C_{10}H_9N$	8-Methylquinoline	1300-1700	Sol	Stretching freq	Katritzky	JCS - (1960)	2942

$C_{10}H_9N$	α -Naphthylamine	2.5-10 μ 2-12 μ 6-2.3 μ 2.6-3.1 μ 900-2000 3230-3330 3500	Sol L L - - Sol Sol	Spec, Solvent effect Spec Group study H bond Spec Group freq Group freq, H bond Spec, Band freq, Struc Freq, FC, H bond Freq Freq, I FC, Freq Substitution effect	Stang Bell Ellis Gordy Barnes Flett Hathaway Angyal Short Hill Orville Elliot Wang	PR JACS JACS JACS IEC JCS TFS JCS JCS JCS SA	9 (1917) 49 (1925) 50 (1928) 62 (1940) 15 (1943) - (1948) 45 (1949) - (1952) - (1952) - (1958) - (1958) - (1959) 15 (1959)	542 3039 685 497 659 1441 818 2911 4584 760 1047 1275 1118
$C_{10}H_9N$	β -Naphthylamine	2.5-10 μ 6500-7000 900-2000 3230-3400 3500	Sol Sol - - Sol Sol	Group freq, H bond Spec, Group analysis Spec Group freq Group freq, H bond FC, H bond, Stretch freq Freq Freq, I Freq, FC Substitution effect	Stang Wulf Barnes Flett Hathaway Short	PR JACS IEC JCS TFS JCS	9 (1917) 57 (1935) 15 (1943) - (1948) 45 (1949) - (1952)	542 1464 659 1441 818 4584
$C_{10}H_9N$	1-Phenylcyclopropane-carbonitrile	2-14.5 μ	L	Spec, Table, Band freq	Wiberly	AC	24 (1952)	623
$C_{10}H_9N$	Quinaldine	-	Sol	Spec	Izrailevich	DANS	111 (1956)	617
$C_{10}H_9NO$	3-Acetylindole	700-4000	S	H bond, Band freq	Tanner	SA	9 (1957)	282
$C_{10}H_9NO$	p-Acetylphenyl-acetonitrile	-	-	Group freq	Roring	JACS	75 (1953)	5381
$C_{10}H_9NO$	Echinopsine (III)	2800-3000	S	Group study	Braunholtz	JCS	- (1958)	2780

$C_{10}H_9NO$	3-Indolylacetaldehyde	700-3700	L	Spec, Band freq, Group freq	Brown	JCS -	(1952)	3172
$C_{10}H_9NO$	2-Methoxyquinoline	1450-4000 1300-1700	L Sol	Spec, Freq Stretch freq	Price Katritzky	AJC JCS -	12 (1959) (1960)	589 2942
$C_{10}H_9NO$	4-Methoxyquinoline	1450-4000	S	Spec, Freq	Price	AJC	12 (1959)	589
$C_{10}H_9NO$	5-Methoxyquinoline	1300-1700	Sol	Stretch freq	Katritzky	JCS -	(1960)	2942
$C_{10}H_9NO$	N-Methylcarbostyril	2-16 μ	Sol	Spec, Band freq	Cook	JOC	22 (1957)	211
$C_{10}H_9NO$	1-Methyl-3-hydroxy- quinoline	1400-3650	Sol	Spec, Assign	Mason	JCS -	(1957)	4874
$C_{10}H_9NO$	1-Methyl-5-hydroxy- quinoline	1400-3650	Sol	Taut, Bond freq	Mason	JCS -	(1957)	4874
$C_{10}H_9NO$	1-Methyl-6-hydroxy- quinoline	1400-3650	Sol	Taut, Bond freq	Mason	JCS -	(1957)	4874
$C_{10}H_9NO$	1-Methyl-7-hydroxy- quinoline	1400-3650	Sol	Spec, Assign	Mason	JCS -	(1957)	4874
$C_{10}H_9NO$	1-Methyl-8-hydroxy- quinoline	1400-3650	Sol	Spec, Assign	Mason	JCS -	(1957)	4874
$C_{10}H_9NO$	2-Methyl-8-hydroxy- quinoline	2-11 μ 8-15 μ 3300-3400	Sol S Sol	Spec Assign, Spec Freq, I, H bond	Phillips Charles Badger	JACS SA JCS -	71 (1949) 8 (1956) (1958)	3984 1 3437
$C_{10}H_9NO$	4-Methyl-8-hydroxy- quinoline	2-11 μ 8-15 μ	Sol S	Spec Assign, Spec	Phillips Charles	JACS SA	71 (1949) 8 (1956)	3984 1
$C_{10}H_9NO$	5-Methyl-8-hydroxy- quinoline	3300-3400	Sol	Freq, I, H bond	Badger	JCS -	(1958)	3437
$C_{10}H_9NO$	1-Methylindole-3- aldehyde	700-4000	S	Spec, Freq	Tanner	SA	9 (1957)	282

C ₁₀ H ₉ NO	1-Methyl-2-quinolone	1450-4000	S	Spec, Freq	Price	AJC	12 (1959)	589
C ₁₀ H ₉ NO	1-Methyl-4-quinolone	1450-4000	S	Spec, Freq	Price	AJC	12 (1959)	589
C ₁₀ H ₉ NO	2-Methyl-4-quinolone	1450-4000	S,Sol	Spec, Freq	Price	AJC	12 (1959)	589
C ₁₀ H ₉ NO	4-Methyl-2-quinolone	-	S,Sol	Spec	Gibson	JCS	- (1955)	4340
C ₁₀ H ₉ NO	1450-4000	1450-4000	S,Sol	Spec, Freq	Price	AJC	12 (1959)	589
C ₁₀ H ₉ NO	α-Phenylaceto-acetonitrile	-	S	Band freq	Chase	JCS	- (1953)	3518
C ₁₀ H ₉ NOS	Thioindoxyl acetate	700-4000	S,Sol	Freq, Struct, H bond	Holt	JOS	- (1958)	1217
C ₁₀ H ₉ NOS ₂	3-Benzoyl-2-thiothiazolidone	-	-	Group freq	Clapp	JACS	75 (1953)	1490
C ₁₀ H ₉ NO ₂	N-Acetyloxyindoxyl	700-4000	Sol,S	Freq, H bond, Struct	Holt	JCS	- (1958)	1217
C ₁₀ H ₉ NO ₂	N-Acetyloxyindole	6/μ 700-4000	S,Sol Sol	Group study Assign, Substitution	Abramovitch Holt	JOS JCS	- (1957) - (1958)	1413 1217
C ₁₀ H ₉ NO ₂	Anilinetetronic acid	-	-	Ident	Hall	JOS	- (1954)	2034
C ₁₀ H ₉ NO ₂	p-Cyanoethyl benzoate	650-900	Sol,L	Group study	Yoshida	CPBT	8 (1960)	389
C ₁₀ H ₉ NO ₂	3-Indoleacetic acid	2-16/μ	-	Ident	Houff	JACS	76 (1954)	5654
C ₁₀ H ₉ NO ₂	Indoxyl acetate	700-4000	S,Sol	Freq assign, Struct, H bond	Holt	JCS	- (1958)	1217
C ₁₀ H ₉ NO ₂	4-Hydroxy-1-methyl-2-quinolone	1450-4000	S	Spec, Freq	Price	AJC	12 (1959)	589
C ₁₀ H ₉ NO ₂	5-Methoxy-3-phenylisoxazole	1000-1680	S	Spec, Table, Group freq	Angyal	JCS	- (1953)	2181

$C_{10}H_9NO_2$	Monomethoxy quinoline-N-oxide	700-3000	-	Spec	Shindo	CPBT 8 (1960)	845
$C_{10}H_9NO_2$	2-Methylhomophthalimide	600-3500	S,Sol	Assign, Struo	Blum	SA 13 (1958)	93
$C_{10}H_9NO_2$	1-Methyl-3-hydroxymethyleneoxindole	2-11/ μ	S	Speco	Wenkert	JACS 75 (1953)	5514
$C_{10}H_9NO_2$	Methyl indole-3-carboxylate	1500-3000	S,Sol	Speco, Assign	Wetherell	JACS 81 (1959)	4517
$C_{10}H_9NO_2$	1-Methylindole-3-aldehyde	900-4000	S,Sol	Struo, H bond	O'Sullivan	JCS - (1959)	876
$C_{10}H_9NO_2$	N-Phenylsuocinimide	-	Sol	Group freq	Cookson	JCS - (1954)	4028
$C_{10}H_9NO_3$	3-Benzylloxazolidinone	650-4000	Sol	Spec	Planka	JCS - (1960)	983
$C_{10}H_9NO_3$	N-Hydroxy-3-indoleacetic acid	-	-	Table, Group freq	Houff	JACS 76 (1954)	5654
$C_{10}H_9NO_3$	7-Hydroxyindole-3-acetic acid	-	S	Group freq	Ek	JACS 76 (1954)	5579
$C_{10}H_9NO_3$	N-Methyl-4-methoxyphthalimide	-	-	Ident	Boekeheide	JACS 75 (1953)	2550
$C_{10}H_9NO_3$	1-Phenyl-4-carboxy-2-azetidinone	2-10/ μ	Sol	Spec	Sheehan	JACS 72 (1950)	5158
$C_{10}H_9NO_3$	3-p-Tolylloxazolidinone	650-4000	Sol	Spec	Planka	JCS - (1960)	983
$C_{10}H_9NO_3S$	p-Cyanophenyl acetyl-methyl sulfone	-	S	Substitution effect	Momose	CPBT 6 (1958)	412

$C_{10}H_9NO_4$	Methyl o-nitro-cinnamate	800-1600 800-1500	- Sol -	Band I, Mol consts Group assign Assign	Katritzky Katritzky Katritzky	JCS SA SA	- (1959) 3670 16 (1960) 954 16 (1960) 964
$C_{10}H_9NO_4$	γ -p-Nitrophenyl- γ -butyrolactone	5-14 μ	S,Sol	Spec	Cristol	JACS	74 (1952) 4083
$C_{10}H_9NO_5$	5-Acetyl-6-methyl-3,4-pyridine-carboxylic acid	-	-	Ident, Spec	Jones	JACS	73 (1951) 5610
$C_{10}H_9NS$	1-Methylmercapto-isoquinoline	700-3800	S,Sol	Freq, Assign	Spinner	JCS	- (1960) 1237
$C_{10}H_9NS$	2-Methylmercaptoquinoline	700-3800	S,Sol	Freq, Assign	Spinner	JCS	- (1960) 1237
$C_{10}H_9NS$	4-Methylmercapto-quinoline	700-3800	S,Sol	Freq, Assign	Spinner	JCS	- (1960) 1237
$C_{10}H_9NS$	8-Methylmercapto-quinoline	700-3800	S,Sol	Freq, Assign	Spinner	JCS	- (1960) 1237
$C_{10}H_9NS$	7-Methyl-2-quinoline-thiol	2-16 μ	S	Spec	Hannan	JACS	71 (1949) 3733
$C_{10}H_9NS$	7-Methyl-4-quinoline-thiol	2-16 μ	S	Spec	Hannan	JACS	71 (1949) 3733
$C_{10}H_9NS$	N-Methyl-1-thioiso-quinolone	700-3800	S,Sol	Freq, Spec	Spinner	JCS	- (1960) 1237
$C_{10}H_9NS$	N-Methyl-2-thioiso-quinolone	700-3800	S,Sol	Freq, Spec	Spinner	JCS	- (1960) 1237
$C_{10}H_9NS$	N-Methyl-4-thioiso-quinolone	700-3800	S,Sol	Freq, Assign	Spinner	JCS	- (1960) 1237

$C_{10}H_9NS_2$	2-Allylthiobenzothiazole	-	-	Group freq	Moore	JCS - (1952)	4237
$C_{10}H_9NS_2$	3-Allyl-2-thiobenzothiazoline	-	-	Group freq	Moore	JCS - (1952)	4237
$C_{10}H_9N_3$	4-Amino-5-phenylpyrimidine	2-25 μ	S	Spec, Group freq	Short	JCS - (1952)	168
$C_{10}H_9N_3O$	2-Aminoquinoline-3-carboxamide	600-4000	-	Spec, Ident, Struct	Taylor	JOC 18 (1953)	175
$C_{10}H_9N_3O_2$	2-Aminoquinoline-3-carboxamide-1-oxide	600-4000	-	Spec, Struct	Taylor	JOC 18 (1953)	175
$C_{10}H_9N_3O_8$	DNP-L-Aspartic acid	625-5000	S	Spec, Ident	Friedberg	CJC 37 (1959)	1469
$C_{10}H_9N_5O$	Kinetin	3.2-13.3 μ	S	Table Ident, Struct	Miller Miller	JACS 77 (1955) JACS 77 (1955)	1392 2662
$C_{10}H_9N_7$	5,7-Diamino-3-phenyl-5-triazolo[4,3-a]-S-triazine	-	-	Group freq, Iso	Koiser	JOC 18 (1953)	1610
$C_{10}H_9O_2P$	Naphthalenephosphinic acid	2-21 μ 600-4000	S S	Spec, Struct anal Group study	Deasch Braunholtz	AC 23 (1951) JCS - (1959)	853 868
$C_{10}H_{10}$	cis-2, cis-8-Decadien-4,6-diyne	-	Sol	Group freq, I	Allan	JCS - (1955)	1874
$C_{10}H_{10}$	trans-2, trans-8-Decadien-4,6-diyne	-	Sol	Group freq, I	Allan	JCS - (1955)	1874
$C_{10}H_{10}$	cis-1-Phenyl-1,3-butadiene	3-16 μ 5-15 μ	- -	Spec, Ident Spec	Orsig Grunmitt	JACS 73 (1951) JACS 73 (1951)	1191 3479
$C_{10}H_{10}$	trans-1-Phenyl-1,3-butadiene	5-15 μ	-	Spec	Grunmitt	JACS 73 (1951)	3479

$C_{10}H_{10}$	Vinylcycloocta- tetraene	2-16/ μ 3-16/ μ	Sol -	Spec, Ident Spec	Cope Craig	JACS 73 (1951) JACS 73 (1951)	1195 1191
$C_{10}H_{10}Br_2O_2$	2,3-Dibromopropyl benzoate	-	L	Band freq	Edwards	JCS - (1953)	3427
$C_{10}H_{10}ClNO$	2-(3-Chloro-2-hydroxy- phenyl)oxazoline	3/ μ	Sol	Bond freq, H bond	Flett	SA 10 (1958)	21
$C_{10}H_{10}Cl_2O_4$	α,β -Dichloro-2- hydroxy-4,6-dimethoxy- acetophenone	-	-	Group freq, Bond freq	Mac Millan	JCS - (1954)	429
$C_{10}H_{10}Cl_8$	Toxaphene	2-15/ μ 7-14.5/ μ	Sol Sol	Spec Spec	Garhart Kenyon	AC 24 (1952) AC 24 (1952)	851 1197
$C_{10}H_{10}F_3NO$	N-Ethyltrifluoro- acetanilide	2-15/ μ	L,Sol	Spec	Park	JACS 73 (1951)	5878
$C_{10}H_{10}INO_6$	p-Iodosonitrobenzene diacetate	665-1755	S,Sol	Assign, I	Bell	JCS - (1960)	1209
$C_{10}H_{10}N_2$	2-Cyano-1,3-butadiene dimer	700-3500	L	Spec, Struct, Anal	Marvel	JACS 71 (1949)	37
$C_{10}H_{10}N_2$	1,8-Diaminonaphtha- lene	630-900	S,Sol	Substitution effect	Cencelj	SA 7 (1955)	274
$C_{10}H_{10}N_2$	2,5-Dicyano-5- vinylcyclohexene-1	-	-	Band freq	Price	JACS 74 (1952)	2987
$C_{10}H_{10}N_2$	2,4-Dimethylquina- zoline	700-3500	L	Spec, Table, Assign	Culbertson	JACS 74 (1952)	4834
$C_{10}H_{10}N_2$	Nicotyrine	2-15/ μ	Sol,L	Spec, Table	Eddy	AC 26 (1954)	1428
$C_{10}H_{10}N_2O$	N-Cyanomethylphenyl acetamide	1500-3600 700-3400 3/ μ	S,Sol S Sol	Assign, Spec Spec Band freq	Richards Mann Russell	JCS - (1947) PBS 192 (1948) SA 8 (1956)	1248 489 138

$C_{10}H_{10}N_2O$	1,2-Dimethyl-4-quinazolone	700-3500 S	Spec, Table Assign	Culbertson	JACS 74 (1952) 4834
$C_{10}H_{10}N_2O$	2,3-Dimethyl-4-quinazolone	700-3500 S	Spec, Table, Assign	Culbertson	JACS 74 (1952) 4834
$C_{10}H_{10}N_2O$	1-Phenyl-3-methyl-5-pyrazolone	- S - S	Freq Spec	Pickard Toda	JACS 76 (1954) 5169 NKZ 80 (1959) 402
$C_{10}H_{10}N_2OS$	5-Methyl-3-phenyl-2-thiohydantoin	2.5-15/ μ S	Spec, Ident	Ramachandran	AC 27 (1955) 1734
$C_{10}H_{10}N_2O_2$	2,4-Dimethoxy-quinazoline	700-3500 S	Spec, Table, Assign	Culbertson	JACS 74 (1952) 4834
$C_{10}H_{10}N_2O_2$	1,3-Dimethyl-2,4-quinazolinedione	755-2915 S	Band freq, I	Culbertson	JACS 74 (1952) 4834
$C_{10}H_{10}N_2O_2$	3-Ethylbenzoylene-urea	2-16/ μ S	Spec, Group freq	Staiger	JOC 18 (1953) 1427
$C_{10}H_{10}N_2O_2$	1-Methylindole-3-aldoxime	900-4000 Sol,S	Struct, H bond	O'Sullivan	JCS - (1959) 876
$C_{10}H_{10}N_2O_2$	3-(2-Nitroethyl)indole	- Sol,S	Group freq	Noland	JACS 76 (1954) 3227
$C_{10}H_{10}N_2O_2$	5,6-Tetramethylene-benzofuroxane	1400-1700 Sol	Band freq	Boyer	JACS 75 (1953) 5298
$C_{10}H_{10}N_2O_2S$	5-Hydroxymethyl-3-phenyl-2-thiohydantoin	2.5-15/ μ S	Spec, Ident	Ramachandran	AC 27 (1955) 1734
$C_{10}H_{10}N_2O_4$	Diethyl trans-1,2-dicyanoethylene-1,2-dicarboxylate	- Sol	Freq, I	Felton	JCS - (1955) 2170

$C_{10}H_{10}N_2O_4$	2-Nitro-4,5-dimethoxy-phenylacetoneitrile	-	Sol	Freq	Walker	JACS	77 (1955)	3844
$C_{10}H_{10}N_2O_5$	γ -1,3-Dinitro-1,2,3,4-Tetrahydro- β -naphthol	600-4000	S	Spec, H bond, Assign	Pickering	JACS	80 (1958)	680
$C_{10}H_{10}N_2O_4$	Protonaldehyde-2,4-dinitrophenyl-hydrazone	6-15 μ	S	Ident	Ross	AC	25 (1953)	1288
		2-15 μ	S	Band spec, Ident	Flynn Jones	JACS AC	76 (1954) 28 (1956)	3121 191
$C_{10}H_{10}N_2O_4S_2$	DH-(2,4-dihydroxy-6-methylpyrimidin-5-yl) disulfide	1590-1730	S	Ident, I	Barker	JCS	- (1954)	4206
$C_{10}H_{10}N_2O_6$	α -Ketobutyric acid-2,4-dinitrophenyl-hydrazone	1400-1800	-	Ident	Drew	JACS	74 (1952)	1852
$C_{10}H_{10}N_4O_6$	Pyruvic acid-N-methyl-2,4-dinitrophenyl-hydrazone	900-1220	S	Freq, H bond	Bergmann	JCS	- (1956)	1519
$C_{10}H_{10}O$	2-Acetyl-1-phenyl-trans-ethylene	-	Sol	Group freq, Spec	Potts	SA	15 (1959)	679
$C_{10}H_{10}O$	1,2-Benzocyclohex-1-en-3-one	1687	L	Freq	Schubert	JACS	77 (1955)	4172
			-	Freq	Stevens	JACS	77 (1955)	4590
			-	Freq	Farmer	JCS	- (1956)	3600
$C_{10}H_{10}O$	Cyclooctatetraenyl methyl ketone	2-16 μ	L	Spec, Ident	Cope	JACS	75 (1953)	3220
$C_{10}H_{10}O$	Cyclopropyl phenyl ketone	-	Sol	Band freq, Ident, I	Puhl	JACS	75 (1953)	5023
		1600-1800	Sol	Bond freq	Fuson	JACS	76 (1954)	2526
		1-2.7 μ	Sol	Group study	Washburn	JACS	80 (1958)	504

$C_{10}H_{10}O$	4-Indancarboxaldehyde	-	Sol	Freq	Hunsberger	JACS 77 (1955)	2466
$C_{10}H_{10}O$	5-Indancarboxaldehyde	-	Sol	Freq	Hunsberger	JACS 77 (1955)	2466
$C_{10}H_{10}O$	3-Phenylcyclobutanone	-	-	Freq	Roberts	JACS 75 (1953)	4765
$C_{10}H_{10}O$	Phenyl propenyl ketone	1600-1800	Sol	Freq	Fuson	JACS 76 (1954)	2526
$C_{10}H_{10}O_2$	1-Allyl-3,4-methylene-dioxybenzene	700-3000	L,Sol	Spect Group freq	Morris Briggs	PR 38 (1931) AC 29 (1957)	141 904
$C_{10}H_{10}O_2$	trans-1,2-Dihydroxy-dihydronaphthalene	3 μ	Sol	Band freq	Kuhn	JACS 74 (1952)	2492
$C_{10}H_{10}O_2$	5-Hydroxy-4-indan-carboxaldehyde	-	Sol	Freq	Hunsberger	JACS 77 (1955)	2466
$C_{10}H_{10}O_2$	6-Hydroxy-5-indan-carboxaldehyde	-	Sol	Freq	Hunsberger	JACS 77 (1955)	2466
$C_{10}H_{10}O_2$	7-Hydroxy-4-methyl-indanone	-	Sol	H bond, Chelation effect	Farmer	JCS - (1956)	3600
$C_{10}H_{10}O_2$	8-Hydroxy-1-tetralone	-	Sol	Freq	Hochstein	JACS 75 (1953)	5455
$C_{10}H_{10}O_2$	Isopropenyl benzoate	-	Sol	Bond freq, Group freq	Davison	JCS - (1953)	2607
$C_{10}H_{10}O_2$	cis-Isoafrrole	-	Sol	Spec	Briner	HCA 41 (1958)	1390
$C_{10}H_{10}O_2$	trans-Isoafrrole	-	Sol	Spec	Briner	HCA 41 (1958)	1390
$C_{10}H_{10}O_2$	Isosafrrole	700-3000	L,Sol	Group freq	Briggs	AC 29 (1957)	904
$C_{10}H_{10}O_2$	Methyl trans-cinnamate	2-15 μ	L	Assign	Walton	JACS 79 (1957)	3985
$C_{10}H_{10}O_2$	Methyl cinnamate	700-1700 600-4000	S Sol	Spec Group freq, Substitution	Mann Katritzky	PRS 192 (1948) JCS - (1958)	489 4155

				Assign Freq, I, Group study	Katritzky Thompson	JCS SA	(1958) (1958)	2182 236
$C_{10}H_{10}O_2$	Methyl cycloocta- tetraene-carboxylate	- -	Sol Sol	Spec Spec, Ident	Cope Cope	JACS JACS	74 (1952) 74 (1953)	173 3220
$C_{10}H_{10}O_2$	2-Methyl-3-hydroxy- indone	-	-	Spec	Bergmann	BSCF	(1959)	634
$C_{10}H_{10}O_2$	1-Phenyl-3-butane- dione	- 2-15 μ	Sol -	Freq Group study	Bellamy Bratoz	JCS TFS	(1954) 52 (1956)	4487 464
$C_{10}H_{10}O_2S_2$	Benzylcarboxymethyl- dithioacetate	400-4000	S	Freq	Bak	ACS	12 (1958)	1451
$C_{10}H_{10}O_2S_2$	o-Tolylcarboxy- methyl dithioacetate	400-4000	S	Spec, Freq	Bak	ACS	12 (1958)	1451
$C_{10}H_{10}O_2S_2$	p-Tolylcarboxy- methyl dithio- acetate	400-4000	S	Spec, Freq	Bak	ACS	12 (1958)	1451
$C_{10}H_{10}O_3$	o-Acetoxyaceto- phenone	1550-4000 -	S -	Freq Freq	Hergert Snyder	JACS JACS	75 (1953) 76 (1954)	1622 4601
$C_{10}H_{10}O_3$	p-Acetoxyaceto- phenone	5-7 μ 1550-4000 1600-1800	S S Sol	Substitution effect Freq Freq Freq	Soloway Hergert Fuson Freeman	JACS JACS JACS JACS	73 (1951) 75 (1953) 76 (1954) 82 (1960)	5000 1622 2526 2454
$C_{10}H_{10}O_3$	m-Acetoxyaceto- phenone	-	Sol	Freq	Freeman	JACS	82 (1960)	2454
$C_{10}H_{10}O_3$	β -Benzoylpropionic acid	-	-	Band freq	Smith	JACS	73 (1951)	5273
$C_{10}H_{10}O_3$	Coniferaldehyde	6-10.3 μ	Sol	Table, Band freq, H bond	Black	JACS	75 (1953)	5344

$C_{10}H_{10}O_3$	4,7-Dihydroxy- β -methylindanone	-	Sol	H bond, Chelation effect	Farmer	JCS -	(1956)	3600
$C_{10}H_{10}O_3$	5,8-Dihydroxy-tetralone	-	S,Sol Sol	Bond freq, H bond Chelation effect	Thompson Farmer	JCS - JCS -	(1952) (1956)	1822 3600
$C_{10}H_{10}O_3$	7-Hydroxy-4,6-dimethylphthalide	-	S,Sol	Group freq, H bond	Duncanson	JCS -	(1953)	1331
$C_{10}H_{10}O_3$	4-Hydroxy- β -methoxy-cinnamaldehyde	-	Sol	Freq Spec, Freq	Smith Herzert	JCS - JOC 25	(1955) (1960)	2347 405
$C_{10}H_{10}O_3$	p-Methoxycinnamic acid	-	Sol	Freq	Goulden	SA 6	(1954)	129
$C_{10}H_{10}O_3$	5-Methoxy-6-methyl-phthalide	-	Sol	Freq	Duncanson	JCS -	(1953)	3637
$C_{10}H_{10}O_3$	6-Methoxy-5-methyl-phthalide	-	Sol	Freq	Duncanson	JCS -	(1953)	3637
$C_{10}H_{10}O_3$	7-Methoxy- β -methyl-phthalide	2-16 μ	Sol	Freq, Spec Ident	Hochstein Kashner	JACS 74 JACS 74	(1952) (1952)	3905 3710
$C_{10}H_{10}O_3$	7-Methoxy-6-methyl-phthalide	-	Sol	Freq	Duncanson	JCS -	(1953)	3637
$C_{10}H_{10}O_3S_2$	o-Methoxyphenyl-carboxymethyl dithioacetate	400-4000	S	Spec, Freq	Bak	ACS 12	(1958)	1451
$C_{10}H_{10}O_3S_2$	p-Methoxyphenyl-carboxymethyl dithioacetate	400-4000	S	Spec, Freq	Bak	ACS 12	(1958)	1451
$C_{10}H_{10}O_4$	m-Acetoxyphenyl acetate	-	Sol	Freq	Freeman	JACS 82	(1960)	2454

$C_{10}H_{10}O_4$		Sol	Freq	Freeman	JACS	82 (1960)	2454
p-Acetoxyphenyl acetate	-	-					
Deca-2,8-diyne-dioic acid	-	S	Band freq Group freq, I	Jones Allan	JCS	-	(1954) 3212 (1955) 1874
Deca-3,7-diyne-dioic acid	-	-	Band freq	Jones	JCS	-	(1954) 3212
Decatetraenedioic acid	-	S	Group freq	Schenck	JACS	75	(1953) 2274
4,6-Dimethoxy-coumaranone	-	Sol	Spec	Duncanson	JCS	-	(1957) 3555
5,6-Dimethoxy-phthalide	1550-1850	Sol	Freq	Jones	CJC	37	(1959) 2007
Dimethyl cis-2,trans-4-octadien-6-yne-1,8-dioate	-	Sol	Group freq, I	Allan	JCS	-	(1955) 1874
Dimethyl trans-2,trans-4-octadien-6-yne-1,8-dioate	-	Sol	Group freq, I	Allan	JCS	-	(1955) 1874
Dimethyl 2,6-octadiyne-1,8-dioate	-	Sol	Group freq, I	Allan	JCS	-	(1955) 1874
Dimethyl phthalate	1050-1800 2-15 μ 2-15 μ	- L Sol	Spec, Absorp freq Band freq, I, Spec Spec, Anal, Group freq	Barnes Kendall Pristera	IEC AFS AC	15 7 25	(1943) 659 (1953) 179 (1953) 844
	800-1600 800-1500	- Sol	Ext coefficient, I Group study, Assign Band charact, Assign	Katritzky Katritzky Katritzky	JCS SA SA	- 16 16	(1959) 3670 (1960) 954 (1960) 964
Dimethyl isophthalate	700-1700 800-1500	Sol Sol	Substitution effect Band charact, Assign	Katritzky Katritzky	JCS SA	- 16	(1959) 2058 (1960) 954

$C_{10}H_{10}O_4$	Dimethyl terephthalate	5-15 μ 700-1700 800-1500	Sol Sol Sol	-	-	Band freq, Assign	Katritzky	SA	16 (1960)	964		
$C_{10}H_{10}O_4$	Ethyl phenyl oxalate	1740-1800	L	-	-	Spec Freq, Assign, I Band charact, Assign Band charact, Assign	Miller Katritzky Katritzky Katritzky	TFPS JCS SA SA	49 (1953) - (1959) 16 (1960) 16 (1960)	433 2051 954 964		
$C_{10}H_{10}O_4$	3-Hydroxy-7-methoxy-3-methylphthalide	-	-	-	-	Ident Group study	Kushner Boothe	JACS JACS	74 (1952) 75 (1953)	3710 3261		
$C_{10}H_{10}O_4$	m-Meconine	-	-	-	-	Freq	Hight	JACS	77 (1955)	4399		
$C_{10}H_{10}O_4$	3-Methoxy-4-hydroxy-cinnamic acid	600-4000	-	-	-	Spect, Group freq	Herzert	JOC	25 (1960)	405		
$C_{10}H_{10}O_4$	β -3,4-Methylenedioxy-phenylpropionic acid	700-3000	S	-	-	Group freq	Briggs	AC	29 (1957)	904		
$C_{10}H_{10}O_4$	Methyl tropolone-5-carboxylate methyl ether	696-1724	S	-	-	Table	Johns	JCS	- (1955)	309		
$C_{10}H_{10}O_4$	Vanillin acetate	600-4000	S	-	-	Spect, Group freq	Herzert	JOC	25 (1960)	405		
$C_{10}H_{10}O_5$	2-Ethyl-4-hydroxy-isophthalic acid	-	S	-	-	Freq	Pasternack	JACS	34 (1952)	1928		
$C_{10}H_{10}O_5$	Sorbic acid maleic anhydride adduct	2-8 μ	S	-	-	Spect, Freq	Craig	JACS	74 (1952)	2905		
$C_{10}H_{10}O_5$	Vanillic acid acetate	600-4000	S	-	-	Spect, Group freq	Herzert	JOC	25 (1960)	405		
$C_{10}H_{10}O_8$	Hex-3-yne-1,1,6,6-tetracarboxylic acid	-	S	-	-	Group study	Jones	JCS	- (1954)	3208		

$C_{10}H_{10}S$	300-3800	S,Sol	Freq	Nyquist	SA	16 (1960)	419
Benzyl propargyl sulfide							
$C_{10}H_{11}BrO_4$	-	-	Group freq	Berson	JACS	76 (1954)	4975
6-Bromo-2-carbomethoxy-3-carboxy-5-hydroxy-1,4-methylenecyclohexane-5,5-lactone							
$C_{10}H_{11}BrO_4$	700-2899	Sol	Group freq	Briggs	AC	29 (1957)	904
6-Bromopiperonal dimethyl acetal							
$C_{10}H_{11}Br_2NO_3$	-	-	Group study	Shafer	JACS	75 (1953)	5963
7,9-Dibromo-10-methyl-1,3,8-triketoperhydroisoquinoline							
$C_{10}H_{11}Br_2NO_3$	2.5-12 μ	Sol	Spec, Band freq	Wasserman	JACS	74 (1952)	4093
4-Carbomethoxy-5,5-dimethyl-2-thiazolidine- α,β -dibromomethyl- γ -lactam							
$C_{10}H_{11}ClN_2O$	-	-	Group freq, I	Gingras	JCS	- (1954)	1920
N-(2-Cyano-2-propyl)-N-m-chlorophenylhydroxylamine							
$C_{10}H_{11}ClN_2O$	-	-	Group freq, I	Gingras	JCS	- (1954)	1920
N-(2-Cyano-2-propyl)-N-p-chlorophenylhydroxylamine							
$C_{10}H_{11}Cl_2NO_3$	2.5-12 μ	Sol	Spec, Band freq	Wasserman	JACS	74 (1952)	4093
4-Carbomethoxy-5,5-dimethyl-2-thiazolidine- α,β -dichloroacrylic acid, γ -lactam							
$C_{10}H_{11}Cl_3N_2O$	1000-3500	S,Sol	Assign, Struct, H bond	Grivas	CJC	37 (1959)	795
N-p-Methoxyphenyl-trichloroacetamide							

$C_{10}H_{11}IO_4$	Iodosobenzene diaacetate	665-1755	S,Sol	Assign, I	Bell	JCS -	(1960)	1209
$C_{10}H_{11}N$	1-Cyano- β -phenylpropane	2200-2300	Sol	Freq, Struct	Jesson	SA	13 (1958)	217
$C_{10}H_{11}N$	1,3-Dimethylindole	650-3900	L	Spec	Snyder	JACS	70 (1948)	1857
$C_{10}H_{11}N$	2-Phenylpyrrolone	6-18 μ	Sol	Substitution effect	Meyers	JOC	24 (1959)	1233
$C_{10}H_{11}N$	2,4,6-Trimethylbenzotrile	700-2900	S,Sol	Spec, Freq	Speroni	JCP	26 (1957)	1777
$C_{10}H_{11}NO$	1-Cyano- β -phenoxypropane	2200-2300	Sol	Freq, Struct	Jesson	SA	13 (1958)	217
$C_{10}H_{11}NO$	1,3-Dimethylindole	2-11 μ	Sol	Spec	Wenkert	JACS	75 (1953)	5514
$C_{10}H_{11}NO$	1-Phenyl-3-amino-2-butene-1-one	650-4000	L,S	Spec	Holtzlaw	JACS	80 (1958)	1100
$C_{10}H_{11}NO$	1,2,3,4-Tetrahydro-1-methyl-4-oxoquinoline(I)	-	S	Group study	Braunholtz	JCS -	(1958)	2780
$C_{10}H_{11}NO$	2,4,6-Trimethylbenzotrile oxide	700-2900	S,Sol	Spec, Freq	Speroni	JCP	26 (1957)	1777
$C_{10}H_{11}NO_2$	p-Acetamidooacetophenone	5-7 μ	S	Substitution, Band freq	Soloway	JACS	73 (1951)	5000
		1600-1800	Sol	Freq	Fuson	JACS	76 (1954)	2526
		-	Sol	Resonance, Freq	Freeman	JACS	82 (1960)	2454
$C_{10}H_{11}NO_2$	N-Acetoxyethoxyphenylmethylimine	-	S	Freq	Freeman	JACS	80 (1958)	5954
$C_{10}H_{11}NO_2$	m-Acetylacetanilide	-	Sol	Resonance, Freq	Freeman	JACS	82 (1960)	2454
$C_{10}H_{11}NO_2$	β -Benzoylpropionamide	700-4000	S,Sol	Assign, Struct, Taut	Cronwell	JACS	80 (1958)	4573

$C_{10}H_{11}NO_2$	$C_{10}H_{11}NO_2$	$C_{10}H_{11}NO_2$	$C_{10}H_{11}NO_2$	$C_{10}H_{11}NO_2$	$C_{10}H_{11}NO_2$	$C_{10}H_{11}NO_2$	$C_{10}H_{11}NO_2$	$C_{10}H_{11}NO_2$	$C_{10}H_{11}NO_2$	$C_{10}H_{11}NO_2$	$C_{10}H_{11}NO_2$	$C_{10}H_{11}NO_2$	$C_{10}H_{11}NO_2$	$C_{10}H_{11}NO_2$	$C_{10}H_{11}NO_2$	$C_{10}H_{11}NO_2$	$C_{10}H_{11}NO_2$	$C_{10}H_{11}NO_2$	$C_{10}H_{11}NO_2$	
N,N-Diacetylaniline	5,6-Dimethoxyindole	Ethyl β -(2-pyridyl) acrylate	Ethyl β -(3-pyridyl) acrylate	Ethyl β -(4-pyridyl) acrylate	4-Methyl-5-phenyl-2-oxazolidone	Norhydrohydrastinine	1,2,3,4-Tetrahydro-7-methoxy-4-oxoquinoline	β -Phenylsulfonyl- α -methylpropionitrile	m-Acetoxyacetanilide	p-Acetoxyacetanilide	N-Acetoxyphenylacetamide	N-Acetoxyacetanilide	5,6-Dimethoxyoxindole							
6/4	-	-	-	-	-	-	600-1700	-	-	-	-	-	-	-	-	-	-	-	-	-
Abramovitch	Neuss	Katritzky	Katritzky	Katritzky	Zimmerman	Wildman	Braunholtz	Ross	Freeman	Freeman	Freeman	Walker								
JCS - (1957) 1413	JACS 75 (1953) 4870	JCS - (1958) 2182	JCS - (1958) 2182	JCS - (1958) 2182	JACS 76 (1954) 2291	JACS 77 (1955) 1248	JCS - (1957) 4166	JACS 73 (1951) 540	JACS 82 (1960) 2454	JACS 82 (1960) 2454	JACS 80 (1958) 5954	JACS 80 (1958) 5954	JACS 77 (1955) 3844							
Band study	Ident	Assign, Band charact	Assign, Band charact	Assign, Band charact	Group freq, Iso, Ident	Band freq	Spec, Struct	Spect	Resonance freq	Resonance freq	Freq	Group study, Freq	Freq							

$C_{10}H_{11}NO_3$	Ethyl β -(2-pyridyl-N-oxide) acrylate	-	Sol	Assign, Band character	Katritzky	JCS -	(1958)	2182
$C_{10}H_{11}NO_3$	Ethyl β -(3-pyridyl-N-oxide) acrylate	800-3000	Sol	Assign, Band character Spec, Freq, I	Katritzky Katritzky	JCS - JCS -	(1958) (1959)	2182 3680
$C_{10}H_{11}NO_3$	Ethyl β -(4-pyridyl-N-oxide) acrylate	600-3000	Sol	Assign, Band study Substitution effect, I	Katritzky Katritzky	JCS - JCS -	(1958) (1958)	2182 2192
$C_{10}H_{11}NO_3$	Methyl N-acetyl-anthranilate	-	Sol	Group freq	Cookson	JCS -	(1954)	4028
$C_{10}H_{11}NO_3$	Methyl malonanilate	700-3400	Sol	Spec	Snyder	JACS 74	(1952)	4910
$C_{10}H_{11}NO_3$	ar-3-Nitro-2-tetralol	600-4000	S	H bond, Spec, Assign	Pickering	JACS 80	(1958)	680
$C_{10}H_{11}NO_3S$	Carbothiophenyl- β -alanine	-	S	Freq	Asai	JPC 59	(1955)	322
$C_{10}H_{11}NO_3S$	Carbothiophenyl-DL-alanine	-	S	Freq	Asai	JPC 59	(1955)	322
$C_{10}H_{11}NO_4$	Carbobenzoxylglycine	1350-1550	S	Spec, Group study	Watson	SA 16	(1960)	1322
$C_{10}H_{11}NO_4$	2,6-Diacetoxy-4-methylpyridine	730-1770	L	Table, Band freq	Ames	JCS -	(1953)	3008
$C_{10}H_{11}NO_4$	Ethyl α -nitrophenyl-acetate	-	-	Freq	Emmons	JACS 77	(1955)	4391
$C_{10}H_{11}NO_4$	β -Hydroxy- γ -nitrobutyphenone	-	S	Group freq, Band freq	Leonard	JOC 17	(1952)	1262
$C_{10}H_{11}NO_6$	2-Nitro-4,5-dimethoxyphenylacetic acid	-	S	Freq	Walker	JACS 77	(1955)	3844
$C_{10}H_{11}NS$	β -Phenylmercapto- α -methylpropienitrile	-	-	Spec	Ross	JACS 73	(1951)	540

$C_{10}H_{11}N_3O$	700-3500 S	Ident, Assign	Davison	JCS - (1955)	3389
Cinnamaldehyde semi-carbazone					
$C_{10}H_{11}N_3O_2$	-	Freq, Ident	Snyder	JACS 76 (1954)	1298
DL- α -Amino- β -(3-indazolyl)propionic acid					
$C_{10}H_{11}N_3O_3 \cdot HCl$	-	Struct	Hidy	JACS 77 (1955)	2345
5-Aminooxymethyl-3-phenylhydantoin hydrochloride					
$C_{10}H_{11}N_3O_6$	Sol	Group freq, I	Belew	JACS 77 (1955)	1110
5,5-Dinitro-2-phenoxy-3-aza-4-oxa-2-hexene					
$C_{10}H_{11}N_3O_7$	625-5000 S	Spec, Ident	Friedberg	CJC 37 (1959)	1469
DNP-DL-Threonine					
$C_{10}H_{11}N_5O$	-	Ident	Ainsworth	JACS 75 (1953)	5728
5- β -Benzamidoethyl-tetrazole					
$C_{10}H_{11}N_5O_4$	S	Group freq	Baker	JACS 77 (1955)	15
5',N ⁴ -Cyclo-3-(2',3'-deoxy- β -D-ribofuranosyl)-4-aminimidazole-5-carboxamide					
$C_{10}H_{11}O_4B$	1500-1800 S	Assign, Group freq	Duncanson	JOS - (1958)	3652
Phenyldiacetoxaborane					
$C_{10}H_{12}$	2-16 μ Sol	Spec, Group freq	Mobane	JACS 74 (1952)	5227
all-trans-Decapentaene					
$C_{10}H_{12}$	1-30 μ G	Spect	Kettering	P 4 (1933)	39
Dicyclopentadiene					
$C_{10}H_{12}$	2-16 μ -	Spec	Cope	JACS 74 (1952)	179
1,2-Dimethylcyclooctatetraene					
$C_{10}H_{12}$	750-1950 -	Spec, Absorption freq	Barnes	IEC 15 (1943)	659
2,3-Dimethylstyrene					

$C_{10}H_{12}$	2,4-Dimethylstyrene	750-1950	-	Spec, Absorption freq	Barnes	IEC	15 (1943)	659
$C_{10}H_{12}$	2,6-Dimethylstyrene	-	L,Sol	Group freq, Band freq	Schwartzman	JACS	76 (1954)	781
$C_{10}H_{12}$	Ethylcycloocta- tetraene	2-16 μ	L	Group freq, Spec	Potts	SA	15 (1959)	679
$C_{10}H_{12}$	1-Methyl-2,3- dihydroindene	2-16 μ	L	Spec	Cope	JACS	74 (1952)	175
$C_{10}H_{12}$	2-Methyl-2,3-dihydro- indene	-	Sol	Anal, Calibration	Williams	AC	24 (1952)	1911
$C_{10}H_{12}$	4-Methyl-2,3-dihydro- indene	2-16 μ	L	Spec	Entel	AC	25 (1953)	1303
$C_{10}H_{12}$	2-Methyl-2,3-dihydro- indene	-	Sol	Anal, Calibration	Williams	AC	24 (1952)	1911
$C_{10}H_{12}$	4-Methyl-2,3-dihydro- indene	2-16 μ	L	Spec	Entel	AC	25 (1953)	1303
$C_{10}H_{12}$	5-Methyl-2,3-dihydro- indene	-	Sol	Anal, Calibration	Williams	AC	24 (1952)	1911
$C_{10}H_{12}$	1-Methyl-2-isopro- penylbenzene	2-16 μ	L	Spec	Entel	AC	25 (1953)	1303
$C_{10}H_{12}$	1-Methyl-4-isopropenyl- benzene	3-14.3 μ	L	Anal, Calibration	Williams	AC	24 (1952)	1911
$C_{10}H_{12}$	1-Methyl-1-phenyl- cyclopropane	2-16 μ	L	Spec	Entel	AC	25 (1952)	1303
$C_{10}H_{12}$	1-Phenyl-2-butene	3-15 μ	L,Sol	Spec, Band freq	Murray	JACS	70 (1948)	3867
$C_{10}H_{12}$	2-Phenyl-1-butene	800-1950	-	Anal, Absorption freq	Barnes	IEC	15 (1943)	659
$C_{10}H_{12}$	cis-2-Phenyl-2- butene	3-14.3 μ	L	Spec	Murray	JACS	70 (1948)	3867
$C_{10}H_{12}$	trans-2-Phenyl-2- butene	3-14 μ	L	Spec	Bridson	JCS	- (1951)	2999
$C_{10}H_{12}$		-	Sol	Ext coefficient	Cross	TFS	47 (1951)	354
$C_{10}H_{12}$		3-15 μ	L,Sol	Spec, Band freq	Proell	JOC	16 (1951)	178
$C_{10}H_{12}$		2-15 μ	L	Spec, Anal	Cram	JACS	74 (1952)	2137
$C_{10}H_{12}$		2-15 μ	L	Spec, Anal	Cram	JACS	74 (1952)	2137
$C_{10}H_{12}$		-	-	Freq	Cram	JACS	76 (1954)	5740
$C_{10}H_{12}$		2-15 μ	L	Spec, Anal	Cram	JACS	74 (1952)	2137
$C_{10}H_{12}$		-	-	Freq	Cram	JACS	76 (1954)	5740

$C_{10}H_{12}$	3-Phenyl-1-butene	2-15 μ	L	Spec, Anal Freq	Gram Gram	JACS 74 (1952) 2137 JACS 76 (1954) 5740
$C_{10}H_{12}$	Phenylcyclobutane	-	-	Ident	Roberts	JACS 75 (1953) 4765
$C_{10}H_{12}$	1,2,3,4-Tetrahydro-naphthalene	3.2-3.5 μ 8000-9000 2-15 μ	Sol Sol L Sol	Band freq Group study Spec, Struct anal Anal	Wall Hibbard Shreve Williams	JACS 62 (1940) 2225 AC 21 (1949) 486 AC 23 (1951) 282 AC 24 (1952) 1911
$C_{10}H_{12}Br_2O$	Umbellulone dibromide	2.5-12 μ	Sol	Spec, Struct	Eastman	JACS 75 (1953) 1029
$C_{10}H_{12}Br_2O$	exo-cis-4,5-Dibromo-endo-cis-3,6-endo-methylenehexahydro-phthalic acid-2-methyl ester	-	S	Spec	Berson	JACS 76 (1954) 4069
$C_{10}H_{12}Br_2O$	exo-trans-4,5-Dibromo-3,6-endoxotetra-hydrophthalic acid dimethyl ester	-	Sol	Spec	Berson	JACS 76 (1954) 4060
$C_{10}H_{12}Br_2O$	1-Dimethyl exo-trans-4,5-dibromo-cis-3,6-endoxotetrahydro-1,2-phthalate	-	-	Spec, Ident	Berson	JACS 75 (1953) 4366
$C_{10}H_{12}Cl_2N_2O_2$	2,5-Dichloro-3,6-bis-dimethylamino-p-benzoquinone	2200-8000	Sol	Absorption freq	Buckley	JCS - (1957) 4891
$C_{10}H_{12}F_8O_3$	1,1,6,6-Tetrahydro-1,6-perfluorohexanediol mono-n-butyrate	-	.	Ident	Filler	JACS 75 (1953) 2693
$C_{10}H_{12}N_2$	Tryptamine	-	-	Ident	Noland	JACS 76 (1954) 3227

$C_{10}H_{12}N_2 \cdot HCl$	Indoleethylamine hydrochloride	2-8 μ	S	Spec	Nakanishi	BCSJ 30 (1957)	403
$C_{10}H_{12}N_2O$	N-(2-Cyano-2-propyl)-N-phenylhydroxylamine	-	-	Group freq, Band freq, I	Gingras	JCS - (1954)	1920
$C_{10}H_{12}N_2O$	2-Oxopropionaldehyde-N-methylphenylhydrazone	650-4000	S, Sol	Freq, H bond	Tanner	SA 15 (1959)	20
$C_{10}H_{12}N_2O$	m-Acetylaminoacetanilide	-	Sol	Resonance freq	Freeman	JACS 82 (1960)	2454
$C_{10}H_{12}N_2O_2$	p-Acetylaminoacetanilide	-	Sol	Resonance freq	Freeman	JACS 82 (1960)	2454
$C_{10}H_{12}N_2O_2$	Acetylglycine anilide	2.7-3.2 μ	Sol	Group freq	Mizushima	JACS 73 (1951)	1330
$C_{10}H_{12}N_2O_2$	2-Amino-4,5-dimethoxyphenylacetone nitrile	-	Sol	Freq	Walker	JACS 77 (1955)	3844
$C_{10}H_{12}N_2O_2$	Ethyl glyoxylate phenylhydrazone	700-3400	Sol	Spec	Snyder	JACS 74 (1952)	4910
$C_{10}H_{12}N_2O_2$	2-Imino-N-[O-amino-benzoyloxy]propane	-	S, Sol	Freq	Freeman	JACS 80 (1958)	5954
$C_{10}H_{12}N_2O_2$	Pyruvic acid-N-methylphenylhydrazone	650-4000	S, Sol	Freq, H bond	Tanner	SA 15 (1959)	20
$C_{10}H_{12}N_2O_3$	Dial	2-16 μ 2.5-16 μ	Sol S	Spec, Freq Spec Ident	Umberger Levi Cleverley	AC 24 (1952) AC 28 (1956) ANA 85 (1960)	1309 1591 582
$C_{10}H_{12}N_2O_3$	2-Carboethoxyvinyl aminopyridine-N-oxide	800-3000	Sol	I, Band study	Katritzky	JCS - (1958)	2195

$C_{10}H_{12}N_2O_3$	Kynurenine	-	S	Band freq	Warnell	JACS	76 (1954)	1708
$C_{10}H_{12}N_2O_3$	Dl-2-Phenyl-diglycolamide	8-15 μ	S	Spec	Bonner	JACS	73 (1951)	4290
$C_{10}H_{12}N_2O_3 \cdot H_2SO_4 \cdot H_2O$	Kynurenine sulfate monohydrate	-	S	Band freq	Warnell	JACS	76 (1954)	1708
$C_{10}H_{12}N_2O_4$	0 ² , 3'-Cyclothymidine	-	-	Ident	Michelson	JCS	- (1955)	816
$C_{10}H_{12}N_2O_4$	0 ² , 5'-Cyclothymidine	-	-	Ident	Michelson	JCS	- (1955)	816
$C_{10}H_{12}N_2O_4$	Diethyl 1,2-dicyanoethane-1,2-dicarboxylate	4.5-6 μ	Sol	Struc, Freq	Felton	JCS	- (1955)	2170
$C_{10}H_{12}N_2O_4$	2,4-Dinitro-1-t-butylbenzene	6-8 μ	Sol	Freq, I	Conduit	JCS	- (1959)	3273
$C_{10}H_{12}N_2O_4$	4-Nitro-2-acetamido-5-methoxytoluene	-	-	Ident	Mac Millan	JCS	- (1952)	4019
$C_{10}H_{12}N_2O_5$	2-t-Butyl-4,6-dinitrophenol	1050-1700	-	Spec	Barnes	IEC	15 (1943)	659
$C_{10}H_{12}N_2O_5$	4-t-Butyl-2,6-dinitrophenol	1100-1800	-	Spec	Barnes	IEC	15 (1943)	659
$C_{10}H_{12}N_4O$	6,7-Diethyl-4-hydroxypteridine	1400-3650	Sol	Spec, Assign	Mason	JCS	- (1957)	4874
$C_{10}H_{12}N_4O_2$	7-Allyltheophylline	-	-	Spec	Zelnik	BSCF	- (1960)	1917
$C_{10}H_{12}N_4O_2$	6,7-Diethyl-2,4-dihydroxypteridine	1400-3650	Sol	Spec, Assign	Mason	JCS	- (1957)	4874
$C_{10}H_{12}N_4O_2$	7-Propenyltheophylline	-	-	Spec	Zelnik	BSCF	- (1960)	1917

$C_{10}H_{12}N_4O_4$	Butyraldehyde-2,4-dinitrophenyl-hydrazone	6-15/ μ 2-15/ μ	S S	Spec, Table Spec, Ident	Ross Jones	AC 25 (1953) AC 28 (1956)	1288 191
$C_{10}H_{12}N_4O_4$	Isobutyraldehyde-2,4-dinitrophenyl-hydrazone	2-15/ μ	S	Spec, Ident	Jones	AC 28 (1956)	191
$C_{10}H_{12}N_4O_4$	Methyl ethyl ketone-2,4-dinitrophenyl-hydrazone	- 6-15/ μ - 2-15/ μ	- S, Sol - S	Ident Spec Ident Spec, Ident	Grundon Ross Weinstock Jones	JACS 75 (1953) AC 25 (1953) JACS 75 (1953) AC 28 (1956)	2541 1288 2546 191
$C_{10}H_{12}N_4O_5$	Acetaldol-2,4-dinitrophenylhydrazone	6-15/ μ	S	Spec, Table	Ross	AC 25 (1953)	1288
$C_{10}H_{12}N_4O_5$	Inosine	-	Sol	Spec, Taut	Miles	BBA 35 (1959)	274
$C_{10}H_{12}O$	2-Allyl-4-methyl-phenol	650-1400	Sol	Spec	Shrewsbury	SA 16 (1960)	1294
$C_{10}H_{12}O$	2-Allyl-5-methyl-phenol	650-1400	Sol	Spec	Shrewsbury	SA 16 (1960)	1294
$C_{10}H_{12}O$	2-Allyl-6-methyl-phenol	650-1400	Sol	Spec, Group study	Baker	JACS 81 (1959)	4524
$C_{10}H_{12}O$	4-Allyl-2-methyl-phenol	650-1400	Sol	Spec	Shrewsbury	SA 16 (1960)	1294
$C_{10}H_{12}O$	4-Allyl-3-methyl-phenol	650-1400	Sol	Spec	Shrewsbury	SA 16 (1960)	1294
$C_{10}H_{12}O$	6-Allyl-2-methyl-phenol	650-1400	Sol	Spec	Shrewsbury	SA 16 (1960)	1294
$C_{10}H_{12}O$	2,3-(1',4'-Butadienyl)cyclohexanone	5-7/ μ	Sol	Spec, Taut	Campbell	JACS 82 (1960)	5426

$C_{10}H_{12}O$	3,4-(1',4'-Butadienyl)cyclohexanone	5-7 μ	Sol	Spec, Taut	Campbell	JACS 82 (1960)	5426
$C_{10}H_{12}O$	β -Cyclooctatetraenyl-ethyl alcohol	2-16 μ	L	Spec, Group freq, Assign	Cope	JACS 75 (1953)	3215
$C_{10}H_{12}O$	Cyclooctatetraenyl-methylcarbinol	2-16 μ	L	Spec	Cope	JACS 75 (1953)	3220
$C_{10}H_{12}O$	2,4,6,8-Decatetraenal	1400-2000	Sol	Spec	Blout	JACS 70 (1948)	194
$C_{10}H_{12}O$	2,3-Dimethylacetophenone	-	Sol	Freq	Hunsberger	JACS 77 (1955)	2466
$C_{10}H_{12}O$	2,4-Dimethylacetophenone	-	-	Bond freq	Fuson	JOC 18 (1953)	496
		-	L	Bond freq	Schubert	JACS 77 (1955)	4172
		-	Sol	Freq, I, Substitution effect	Thompson	SA 9 (1957)	208
$C_{10}H_{12}O$	2,6-Dimethylacetophenone	-	-	Bond freq	Fuson	JOC 18 (1953)	496
		-	L,S, Sol	Group freq	Schwartzman	JACS 76 (1954)	781
$C_{10}H_{12}O$	3,4-Dimethylacetophenone	-	L	Group freq	Schubert	JACS 77 (1955)	4172
		-	Sol	Freq, I, Substitution	Hunsberger	JACS 77 (1955)	2466
		-	L	Group freq	Schubert	JACS 77 (1955)	4172
		-	Sol	Freq, I, Substitution	Thompson	SA 9 (1957)	208
$C_{10}H_{12}O$	4,5(or 7)-Dimethylphthalan	2-16 μ	L	Spec, Ident	Entel	JACS 76 (1954)	3646
$C_{10}H_{12}O$	4,7(or 5)-Dimethylphthalan	2-16 μ	L	Spec, Ident	Entel	JACS 76 (1954)	3646
$C_{10}H_{12}O$	Ethoxycyclooctatetraene	2-16 μ	Sol	Spec	Cope	JACS 76 (1954)	1096

$C_{10}H_{12}O$	Isobutyrophenone	-	-	Absorption coefficient	Bonino	TFS	25 (1929)	876
$C_{10}H_{12}O$	4-Isopropylbenzaldehyde	800-1950	- Sol	Spec, Absorption freq Substitution, Freq, I	Barnes Thompson	IEC SA	15 (1943) 9 (1957)	659 208
$C_{10}H_{12}O$	2-(α -Methallyl)phenol	2.7-3.0/ μ 2.7-2.9/ μ	Sol Sol	H bond, Freq Group study, H bond	Baker Baker	JACS JACS	80 (1958) 81 (1959)	5358 4524
$C_{10}H_{12}O$	2-(β -Methallyl)phenol	2.7-2.95/ μ	Sol	Group study, H bond	Baker	JACS	81 (1959)	4524
$C_{10}H_{12}O$	2-(γ -Methallyl)phenol	2.7-3.0/ μ 2.7-2.95/ μ	Sol Sol	H bond Group study, H bond	Baker Baker	JACS JACS	80 (1958) 81 (1959)	5358 4524
$C_{10}H_{12}O$	Methyl-cis-styryl-carbinol	650-3200 670-1800	L,Sol Sol	Spec, Freq Spec, Group freq	Philpotts Brande	N JCS	166 (1950) - (1951)	1028 2085
$C_{10}H_{12}O$	Methyl-trans-styryl-carbinol	650-3200 670-1800	L,Sol Sol	Spec, Freq Spec, Group study	Philpotts Brande	N JCS	166 (1950) - (1951)	1028 2085
$C_{10}H_{12}O$	Methyl p-xylol ketone	1600-1800	Sol	Freq	Fuson	JACS	76 (1954)	2526
$C_{10}H_{12}O$	3-Phenyl-2-butanone	3.3-14.3/ μ	Sol	Band freq, Ident Band freq	Mislow Mislow	JACS JACS	75 (1953) 77 (1955)	2318 1590
$C_{10}H_{12}O$	1-Phenyl-cis-2-butenol-1	600-1800	Sol	Spec, Band freq	Brande	JCS	- (1951)	2078
$C_{10}H_{12}O$	1-Phenyl-trans-2-butenol-1	600-1800	Sol	Spec, Band freq	Brande	JCS	- (1951)	2078
$C_{10}H_{12}O$	Phenylpropenyl-carbinol (cis)	650-3200	L,Sol	Spec, Freq	Philpotts	N	166 (1950)	1028
$C_{10}H_{12}O$	Phenylpropenyl-carbinol (trans)	650-3200	L,Sol	Spec, Freq	Philpotts	N	166 (1950)	1028

$C_{10}H_{12}O$	n-Propyl phenyl ketone	1650-1800	-	Sol	Absorption coefficient Ext coefficient Freq, I, Substitution effect	Bonino Cross Thompson	TFS TFS SA	25 (1929) 47 (1951) 9 (1957)	876 354 208
$C_{10}H_{12}O$	1,2,3,4-Tetrahydro-6-hydroxynaphthalene	2.5-15 μ	Sol	Spec, Freq	Friedel	JACS	73 (1951)	2881	
$C_{10}H_{12}O$	1,2,3,4-Tetrahydro-5-hydroxynaphthalene	2.5-15 μ	Sol	Spec, Band freq, I	Friedel	JACS	73 (1951)	2881	
$C_{10}H_{12}O$	O-Tetralol	-	-	Anal, Freq	Russell	JACS	77 (1955)	4583	
$C_{10}H_{12}O$	O-Tolyl ethyl ketone	-	-	Freq	Pickard	JACS	76 (1954)	5169	
$C_{10}H_{12}O$	2,4,6-Trimethylbenzaldehyde	-	Sol	Freq	West	CIL	- (1959)	333	
$C_{10}H_{12}OS$	2-Ethynylcyclohex-3-ene-1-spiro-2'-(1',3'-oxathiolan)	-	S	Freq	Jaeger	JOS	- (1955)	646	
$C_{10}H_{12}OS$	2-Methyl-2-phenyl-1,3-oxathiolan	-	Sol	Band freq Group freq	Djerassi Pinder	JACS JOS	75 (1953) - (1954)	3704 113	
$C_{10}H_{12}OS$	Benzylthio-propionate	2.5-16 μ	Sol	Struct	Nyquist	SA	15 (1959)	514	
$C_{10}H_{12}OS$	Phenylthio butyrate	2.5-16 μ	Sol	Struct	Nyquist	SA	15 (1959)	514	
$C_{10}H_{12}OS_2$	2-Ethoxybenzo-1,4-dithiane	-	-	Ident	Parham	JACS	75 (1953)	1647	
$C_{10}H_{12}O_2$	2,5-Dioxo-4,7,7-trimethyl-bicyclo[4.1.0]hept-3-one	-	-	Band freq	Corey	JACS	76 (1954)	5257	

$C_{10}H_{12}O_2$	Ethyl m-methyl benzoate	700-1700 800-1500	Sol Sol	Substitution effect, I Band characteristics, Assign Band characteristics, Assign	Katritzky Katritzky Katritzky	JCS SA SA	- 16 16	(1959) (1960) (1960)	2058 954 964
$C_{10}H_{12}O_2$	Ethyl o-methylbenzoate	800-1600 800-1500	- Sol	Ext coefficient, I Assign	Katritzky Katritzky	JCS SA	- 16	(1959) (1960)	3670 954
$C_{10}H_{12}O_2$	Ethyl p-methylbenzoate	700-1700 800-1500 650-900	Sol Sol L,Sol	Freq, Assign, Substitution Band assign Band assign Group study	Katritzky Katritzky Katritzky Yoshida	JCS SA SA CPBT	- 16 16 8	(1959) (1960) (1960) (1960)	2051 954 964 389
$C_{10}H_{12}O_2$	Ethyl α -phenylacetate	- - 600-4000 -	Sol Sol Sol Sol	Band freq Assign, Band freq Group freq, Substitution, I	Hampton Katritzky Katritzky Gutjahr	AC JCS JCS SA	21 - - 16	(1949) (1958) (1958) (1960)	414 2182 4155 1209
$C_{10}H_{12}O_2$	Guaiacylacetone	600-4000	L	Spec, Freq	Herzert	JOCS	25	(1960)	405
$C_{10}H_{12}O_2$	Hydracetylacetone	-	Sol	Freq, H bond	Flett	SA	10	(1958)	21
$C_{10}H_{12}O_2$	2-Hydroxy-4,5-dimethylacetophenone	-	Sol	Freq	Hunsberger	JACS	77	(1955)	2466
$C_{10}H_{12}O_2$	6-Hydroxy-2,3-dimethylacetophenone	-	Sol	Group freq	Hunsberger	JACS	77	(1955)	2466
$C_{10}H_{12}O_2$	Isopropyl benzoate	- 800-1500 -	L Sol -	Band freq Band freq, Assign Band freq, Assign	Edwards Katritzky Katritzky	JCS SA SA	- 16 16	(1953) (1960) (1960)	3427 954 964
$C_{10}H_{12}O_2$	Isoeugenol	6-11/L 3-4/L 2-15/L 600-4000	- L,Sol Sol -	Spec Stretch freq Group freq Spec, Group freq	Allen Tallent Briggs Herzert	JACS AC AC JOC	71 28 29 25	(1949) (1956) (1957) (1960)	2683 953 904 405

$C_{10}H_{12}O_2$	5-15 μ	S, Sol	Substitution effect	Yates	JACS	78 (1956)	650
2-Isopropyl-5-methyl-p-benzoquinone	600-3400	S, Sol Sol	H bond, Spec Band freq	Kuratani Bryant	BCSJ JOC	25 (1952) 19 (1954)	250 1889
α -Isopropyltropolone	600-3400	S, L, Sol	H bond, Spec	Kuratani	BCSJ	25 (1952)	250
β -Isopropyltropolone	2-16 μ	Sol	Spec Band freq	Doering Bryant	JACS JOC	75 (1953) 19 (1954)	297 1889
γ -Isopropyltropolone	1250-1800 600-3400 2-16 μ	Sol S, Sol Sol	Struct, Spec H bond, Spec Spec Band freq	Scott Kuratani Doering Bryant	JACS BCSJ JACS JOC	72 (1950) 25 (1952) 75 (1953) 19 (1954)	240 250 297 1889
Mesitoic acid	-	-	Ident	Fuson	JACS	77 (1955)	174
2-Methoxy-6-propenyl-phenol	2.7-3.0 μ	Sol	H bond	Baker	JACS	80 (1958)	5358
3-Methyl-bicyclo [2:2:1] hepta-2,5-diene-2-carboxylic acid methyl ester	680-1000	Sol	Struct	Jones	JCS	- (1956)	4073
Methyl hemellitate	-	Sol	Freq	Runsberger	JACS	77 (1955)	2466
2-Methyl-5-isopropyl-p-benzoquinone	5-15 μ	Sol Sol	Freq Assign, Freq	Yates Flaig	JACS A	78 (1956) 626 (1959)	650 215
Methyl α -phenyl-propionate	3.30-14.32 μ	Sol	Table, Band freq	Mislow	JACS	75 (1953)	2318
Methyl β -phenyl-propionate	- 600-4000	Sol Sol	Assign, Band freq Group freq, Substitution	Katritzky Katritzky	JCS JCS	- (1958) - (1958)	2182 4155

$C_{10}H_{12}O_2$	Methyl 3,4-xylate	-	Sol	Freq	Hunsberger	JACS 77 (1955)	2466
$C_{10}H_{12}O_2$	Phenethyl acetate	-	Sol	Freq, Substitution effect	Potts	AC 27 (1955)	1027
$C_{10}H_{12}O_2$	Phenylbutyric acid	9.7 μ	L	Absorption	Fenton	AC 31 (1959)	622
$C_{10}H_{12}O_2$	Phenylmethylcarbinyl acetate	3-15 μ	S,L	Spec	Farmer	SA 8 (1957)	374
$C_{10}H_{12}O_2$	n-Propyl benzoate	3.28-14 μ	Sol	Table, Band freq, Ident	Mislow	JACS 75 (1953)	2318
$C_{10}H_{12}O_2$		-	Sol	Freq, Substitution	Potts	AC 27 (1955)	1027
$C_{10}H_{12}O_2$		-	L	Band freq	Edwards	JCS - (1953)	3427
$C_{10}H_{12}O_2$	cis-Tetrahydro-naphthalene-1,2-diol	800-1500	Sol	Band freq, Assign	Katritzky	SA 16 (1960)	954
$C_{10}H_{12}O_2$		-	-	Band freq, Assign	Katritzky	SA 16 (1960)	964
$C_{10}H_{12}O_2$		650-900	Sol,L	Group study	Yoshida	CPBT 8 (1960)	389
$C_{10}H_{12}O_2$		-	Sol	Band freq, Group study	Kuhn	JACS 74 (1952)	2492
$C_{10}H_{12}O_2$	trans-Tetrahydro-naphthalene-1,2-diol	-	Sol	Band freq, Group study	Kuhn	JACS 74 (1952)	2492
$C_{10}H_{12}O_2$	Tetralin hydroperoxide	2-15 μ	Sol	Spect, Anal	Shreve	AC 23 (1951)	282
$C_{10}H_{12}O_2$		5-15 μ	Sol	Spect, Band freq	Minkoff	PRS 224 (1954)	176
$C_{10}H_{12}O_2$	2,3,5,6-Tetramethyl-p-benzoquinone	5-15 μ	Sol	Assign, Freq	Flaig	A 626 (1959)	45
$C_{10}H_{12}O_2$		10-15 μ	S,Sol	Table, Substitution	Yates	JACS 78 (1956)	650
$C_{10}H_{12}O_2$	2,4,5-Trimethylbenzoic acid	10-15 μ	S	Spec, Anal	Nicholson	AC 31 (1959)	519
$C_{10}H_{12}O$	2,4,6-Trimethylbenzoic acid	10-15 μ	S	Spec, Anal, Freq	Nicholson	AC 31 (1959)	519
$C_{10}H_{12}O_2$	Vinyloxyethyl phenyl	-	-	Group freq	Butler	JACS 77 (1955)	482

$C_{10}H_{12}O_2S$	p-Tolyl allyl sulfone	1000-1500	Sol	Spec	Schrieber	AC	21 (1949)	1168
$C_{10}H_{12}O_3$	o-Benzylactic acid	2-12 μ	Sol	Group freq, Band freq	Goldblatt	JACS	77 (1955)	2477
$C_{10}H_{12}O_3$	Coniferyl alcohol	6-11 μ 600-4000	-	Spec, Struct, Anal Spec, Freq	Allen Herzert	JACS JOC	71 (1949) 25 (1960)	2613 405
$C_{10}H_{12}O_3$	2,7-Dihydroxy-4-iso-propyl-2,4,6-cycloheptatrien-1-one	2-14 μ	-	Spec, Band assign	Gardner	CJC	35 (1957)	1039
$C_{10}H_{12}O_3$	2,4-Dimethoxyacetophenone	1550-4000	S	Group freq	Herzert	JACS	75 (1953)	1622
$C_{10}H_{12}O_3$	4-Ethoxy-1,3,5-cycloheptatriene-carboxylic acid	687-2631	S	Band freq	Bartels	JCS	- (1952)	4461
$C_{10}H_{12}O_3$	Ethyl mandelate	2.7-3.2 μ -	L,S Sol	Spec, H bond Freq, H bond	Davies Flett	JCP SA	8 (1940) 10 (1958)	577 21
$C_{10}H_{12}O_3$	Ethyl o-methoxy benzoate	-	-	Band assign	Katritzky	SA	16 (1960)	964
$C_{10}H_{12}O_3$	Ethyl p-methoxy benzoate	1700 650-900	Sol L,Sol	Freq, I Group study	Thompson Yoshida	SA CPBT	9 (1957) 8 (1960)	208 389
$C_{10}H_{12}O_3$	2-Hydroxy-5-t-butyl-p-benzoquinone	-	Sol	Assign	Flaig	A	626 (1959)	215
$C_{10}H_{12}O_3$	2-Hydroxy-6-t-butyl-p-benzoquinone	-	Sol	Assign	Flaig	A	626 (1959)	215
$C_{10}H_{12}O_3$	2-Hydroxy-3-iso-propyl-6-methyl-p-benzoquinone	-	Sol	Assign	Flaig	A	626 (1959)	215

$C_{10}H_{12}O_3$	2-Hydroxy-3-methyl-6-isopropyl-p-benzoquinone	-	Sol	Assign	Flag	A	626 (1959)	215
$C_{10}H_{12}O_3$	2-Methoxy-3,5,6-trimethyl-p-benzoquinone	-	Sol	Assign	Flag	A	626 (1959)	215
$C_{10}H_{12}O_3$	Methyl 6-hydroxy-hemellitate	-	Sol	Freq	Hunsberger	JACS	77 (1955)	2466
$C_{10}H_{12}O_3$	Methyl 6-hydroxy-3,4-xylate	-	Sol	Freq	Hunsberger	JACS	77 (1955)	2466
$C_{10}H_{12}O_3$	cis-2-Phenyl-1:3-dioxan-5-ol	3500-3700	Sol	H bond	Barker	TE	7 (1959)	10
$C_{10}H_{12}O_3$	trans-2-Phenyl-1:3-dioxan-5-ol	3500-3700	Sol	H bond	Barker	TE	7 (1959)	10
$C_{10}H_{12}O_3$	n-Propyl β -(2-furyl)acrylate	800-1700	Sol	Freq, Assign Band study, Assign Band assign	Katritzky Katritzky Katritzky	JCS SA SA	- (1959) 16 (1960) 16 (1960)	657 964 954
$C_{10}H_{12}O_3S$	3-Butenyl benzene-sulfonate	2-16 μ	S	Spec, Ident	Bergstrom	JACS	74 (1952)	145
$C_{10}H_{12}O_4$	Aurantioilic acid	-	-	Group freq, Band freq	Vischer	JCS	- (1953)	815
$C_{10}H_{12}O_4$	Bicyclo[3.1.0]hex-2-ene-6,6-dicarboxylic acid monoethyl ester	-	-	Group freq, Struct	Kierstead	JCS	- (1953)	1803
$C_{10}H_{12}O_4$	Cantharidin	2-13 μ	Sol	Spec, Ident, Struct	Stork	JACS	75 (1953)	384
$C_{10}H_{12}O_4$	Cyclohexyl acetylene-dicarboxylate	2-15 μ	L	Assign, Discussion	Walton	JACS	79 (1957)	3985

$C_{10}H_{12}O_4$	Diallyl fumarate	-	Sol	Absorp, Band freq	Hampton	AC	21 (1949)	914
$C_{10}H_{12}O_4$	Diallyl maleate	-	Sol	Absorp, Band freq	Hampton	AC	21 (1949)	914
$C_{10}H_{12}O_4$	2,7-Dimethoxycycloheptatrienecarboxylic acid	740-2666	S	Table	Johns	JCS	- (1954)	4605
$C_{10}H_{12}O_4$	Dimethyl cyclohexa-1,3-diene-1,4-dicarboxylate	-	-	Band freq	Burnell	JCS	- (1954)	3636
$C_{10}H_{12}O_4$	β -Hydroxyconiferyl alcohol	600-4000	S	Spec, Group freq	Herzert	JOC	25 (1960)	405
$C_{10}H_{12}O_4$	α -Hydroxypropiovanillone	600-4000	S	Spec, Group freq	Herzert	JOC	25 (1960)	405
$C_{10}H_{12}O_4$	Jaconecic dilactone	2-15 μ	S,L	Spec	Bradbury	AJC	9 (1956)	258
$C_{10}H_{12}O_4$	Methyl 2,3-dimethoxybenzoate	-	Sol	Freq	Edwards	JOC	20 (1955)	847
$C_{10}H_{12}O_4$	Vinyltetrahydrophthalic acid	1350-1900	-	Spec	Barnes	IEC	15 (1943)	659
$C_{10}H_{12}O_4^S$	Ethyl β (phenylsulfonyl)acetate	1000-1500	Sol	Spec	Schreiber	AC	21 (1949)	1168
$C_{10}H_{12}O_5$	Dimethyl 3-hydroxyocta-2,4,6-triene-dioate	-	Sol	Group freq	Jones	JCS	- (1954)	3212
$C_{10}H_{12}O_5$	3,4,5-Trimethoxybenzoic acid	-	-	Ident	Klohs	JACS	75 (1953)	4867
		-	-	Ident	Neuss	JACS	75 (1953)	4870
		-	S	Struct	Neuss	JACS	76 (1954)	2463
		-	-	Ident	Klohs	JACS	77 (1955)	2241

$C_{10}H_{12}O_8$	1,3-Dicarboxy-2,4-cyclobutanediacetic acid (α -form)	2-13 μ	S	Spec, Struct, Band freq	Reid	JACS 73 (1951)	1985
$C_{10}H_{12}O_8$	Dimethyl diacetoxymumarate	5.6-10.64 μ	Sol	Group freq, I	Goodwin	JACS 76 (1954)	5599
$C_{10}H_{12}S$	Crotyl phenyl sulfide	2.5-16 μ	L	Spec, Ident, Anal	Cope	JACS 72 (1950)	59
$C_{10}H_{12}S$	α -Methallyl phenyl sulfide	2.5-15 μ	L	Spec, Ident, Anal	Cope	JACS 72 (1950)	59
$C_{10}H_{12}S_2$	2-Ethynylcyclohex-2-ene-1-spiro-2'-(1',3'-dithiolan)	-	S	Band freq	Jaeger	JCS - (1955)	646
$C_{10}H_{13}BrN_2O_3$	Nostal	-	-	Ident	Cleverley	ANA 85 (1960)	582
$C_{10}H_{13}BrO$	α -Bromoumbellulone	-	L	Freq	Eastmen	JACS 76 (1954)	4118
$C_{10}H_{13}BrO_2$	1-Bromo-2-keto-dihydrumbellulone	-	Sol	Freq	Eastman	JACS 76 (1954)	4118
$C_{10}H_{13}Cl_3OSi$	Trichlorosilylbutyl phenyl ether	-	-	Inductive effect	Josien	CFR 249 (1959)	826
$C_{10}H_{13}N$	1-Benzyl-2-methyl-ethylenimine	-	-	Band freq, Group freq	Stolberg	JACS 75 (1953)	5045
$C_{10}H_{13}N$	O-Tolyl ethyl ketimine	-	-	Freq	Pickard	JACS 76 (1954)	5769
$C_{10}H_{13}NO$	N-Methyl-N-aceto-o-toluidide	-	Sol	Freq, I	Richards	TFS 45 (1949)	874
$C_{10}H_{13}NO$	N-Methyl-N-aceto-p-toluidide	-	Sol	Freq, I	Richards	TFS 45 (1949)	874
$C_{10}H_{13}NO$	2-Methyl-3-phenyl oxazolidine	-	-	Band freq	Bergmann	CR 53 (1953)	309

$C_{10}H_{13}NO_2$		S, Sol	Spec, Band assign	Allison	JCS	(1958)	4311
$C_{10}H_{13}NO_2$	4-Amino-5-methoxy-6-methylphthalan	-		Allison	JCS	-	(1958) 4311
$C_{10}H_{13}NO_2$	Bicyclo[3.3.1]nonan-9-one oxime-1-isoxazolone	2-16/ μ	Spec, Struct	Cope	JACS	73	(1951) 4702
$C_{10}H_{13}NO_2$	n-Butyl nicotinate	600-3000	Freq, Assign	Katritzky	JCS	-	(1958) 3165
		800-1500	Band assign	Katritzky	SA	16	(1960) 954
		-	Band assign	Katritzky	SA	16	(1960) 964
$C_{10}H_{13}NO_2$	s-Butyl nicotinate	600-3000	Freq, Assign	Katritzky	JCS	-	(1958) 3165
		800-1500	Band assign	Katritzky	SA	16	(1960) 954
		-	Band assign	Katritzky	SA	16	(1960) 964
$C_{10}H_{13}NO_2$	N-Cycloheptatrienylurethane	709-3322	Table	Johnson	JCS	-	(1955) 1622
$C_{10}H_{13}NO_2$	(1-Cyclohexenyl)succinimide	-	Band freq	Fanta	JACS	76	(1954) 2915
$C_{10}H_{13}NO_2$	Cyclohexylidene-succinimide	-	Band freq	Fanta	JACS	76	(1954) 2915
$C_{10}H_{13}NO_2$	1,3-Diketo-10-methyl-1,2,3,4,5,6,7,10-octahydroisoquinoline	-	Band freq	Shafer	JACS	75	(1953) 5963
$C_{10}H_{13}NO_2$	3,4-Dimethoxybenzylidenemethylamine	-	Spec	Ban	CPBT	8	(1960) 194
$C_{10}H_{13}NO_2$	p-Dimethylaminophenyl acetate	1700-1800	Stretch freq	Short	JCS	-	(1952) 206
$C_{10}H_{13}NO_2$	p-Ethoxy-N-methylbenzamide	1600-3500	Group freq	Thompson	SA	13	(1958) 236

$C_{10}H_{13}NO_2$	Ethyl N-benzyl-carbamate	-	S, Sol	Freq, Assign	Barr	JCS - (1956)	3428
$C_{10}H_{13}NO_2$	5-Ethyl-2-pyridyl-methyl acetate	-	-	Group freq	Bullitt	JACS 76 (1954)	1370
$C_{10}H_{13}NO_2$	Ethyl β -(3-pyridyl)-propionate	-	Sol	Assign, Band study	Katritzky	JCS - (1958)	2182
$C_{10}H_{13}NO_2$	Ethyl β -(4-pyridyl)-propionate	600-3000	Sol	Freq, Assign	Katritzky	JCS - (1958)	3165
$C_{10}H_{13}NO_2$	Ethyl N-tolyl-urethan	-	Sol	Assign, Band study	Katritzky	JCS - (1958)	2182
$C_{10}H_{13}NO_2$	N-(2-Hydroxyethyl)-4-methoxybenzal	1000-3500	Sol	Spec, Assign, I	Katritzky	JCS - (1960)	676
$C_{10}H_{13}NO_2$	Isobutyl nicotinate	2-15/ μ	L, Sol	Spec, Struct	Daasch	JACS 72 (1950)	3673
$C_{10}H_{13}NO_2$	2-Isopropyl-5-methyl-p-benzoquinone-4-oxime	600-3000 800-1500	Sol Sol	Freq, Assign Band assign Band assign	Katritzky Katritzky Katritzky	JCS - (1958) SA 16 (1960) SA 16 (1960)	3165 954 964
$C_{10}H_{13}NO_2$	2-Methyl-2-(2-Cyanoethyl)-1,3-hexanedione	700-3500	S	Struc	Philbrook	JOC 24 (1959)	568
$C_{10}H_{13}NO_2$	Methyl N,N-dimethyl-anthranilate	1550-1750	Sol	Spec, Assign	Ananchenko	IANs - (1960)	1644
$C_{10}H_{13}NO_2$	Methyl phenyl-urethane	2-15/ μ	-	Struct, Anal, Freq	Rasmussen	JACS 71 (1949)	1073
$C_{10}H_{13}NO_2$	3-Nitro-t-butyl-benzene	-	Sol	Freq, I	Thompson	SA 13 (1958)	236
$C_{10}H_{13}NO_2$	3-Nitro-t-butyl-benzene	6-8/ μ	Sol	Freq, I	Conduit	JCS - (1959)	3273

$C_{10}H_{13}NO_2$	Phenacetin	1400-2000 - 1600-1725	Sol - Sol	Spec, Anal Spec Freq	Parke Fortune Thompson	AC 23 (1951) AC 29 (1957) SA 13 (1958)	953 1 236
$C_{10}H_{13}NO_2 \cdot H_2PO_4$	DL-Phenylalanine methyl ester phosphate	3-15 μ	L,S	Spec, Freq	Li	JACS 77 (1955)	3519
$C_{10}H_{13}NO_2$	N-O-Tolylurethan	2-15 μ 3 μ	Sol S	Spec, Anal, Group Freq freq	Priester Russell	AC 25 (1953) SA 8 (1956)	844 138
$C_{10}H_{13}NO_3$	4-Amino-5,6-dimethoxy- phthalan	-	S,Sol	Spec, Band assign	Allison	JCS - (1958)	4311
$C_{10}H_{13}NO_3$	3-n-Butylcarboxy- pyridine-1-oxide	800-3000 -	Sol -	Spec, Freq, I Band assign	Katritzky Katritzky	JCS - (1959) SA 16 (1960)	3680 964
$C_{10}H_{13}NO_3$	3-S-Butylcarboxy- pyridine-1-oxide	800-3000 800-1500 -	Sol Sol -	Spec, Freq, I Band assign Band assign	Katritzky Katritzky Katritzky	JCS - (1959) SA 16 (1960) SA 16 (1960)	3680 954 964
$C_{10}H_{13}NO_3$	3-Carbethoxy-2,5- dimethylpyrrole- 4-aldehyde	500-4000	S,Sol	Spec, Struct, Band freq	Eisner	JCS - (1958)	971
$C_{10}H_{13}NO_3$	1,6-Dimethyl-5- carbethoxy-2- pyridone	-	Sol	Band freq, I	Ramirez	JACS 77 (1955)	1035
$C_{10}H_{13}NO_3$	2,4-Dimethyl-3- carbethoxypyrrole- 5-aldehyde	500-4000	S,Sol	Spec, Struct, Band freq	Eisner	JCS - (1958)	971
$C_{10}H_{13}NO_3$	3,5-Dimethyl-2- carbethoxypyrrole- 4-aldehyde	500-4000	S,Sol	Spec, Struct, Band freq	Eisner	JCS - (1958)	971

$C_{10}H_{13}NO_3$	2,4-Dimethyl-5-carbethoxy-3-pyrrolicarboxaldehyde	-	S, Sol	Freq	Mirone	ANCR 48 (1958)	72
$C_{10}H_{13}NO_3$	3,5-Dimethyl-4-carbethoxy-2-pyrrolicarboxaldehyde	-	S, Sol	Freq	Mirone	ANCR 48 (1958)	72
$C_{10}H_{13}NO_3$	Ethyl 2-methyl-6-methoxynicotinate	-	Sol	Band freq, I	Ramirez	JACS 77 (1955)	1035
$C_{10}H_{13}NO_3$	Ethyl N-methoxyphenylurethan	1000-3600	Sol	Spec, Assign, I	Katritzky	JCS - (1960)	676
$C_{10}H_{13}NO_3$	3-Isobutylcarboxypyridine-1-oxide	800-3000 800-1500	Sol Sol	Spec, Freq, I Band assign Band assign	Katritzky Katritzky Katritzky	JCS - (1959) SA 16 (1960) SA 16 (1960)	3680 954 964
$C_{10}H_{13}NO_3S$	p-Acetylaminoethylphenyl methyl sulfone	-	S	Substitution effect	Momose	CPBT 6 (1958)	412
$C_{10}H_{13}NO_3S$	p-Aminomethylphenyl acetylmethyl sulfone	-	S	Substitution effect	Momose	CPBT 6 (1958)	412
$C_{10}H_{13}NO_4$	3-Carbethoxy-2-methyl-4-oxo- Δ^2 -pyrroline enol acetate	2-8 μ	S	Table, I	Davoll	JCS - (1953)	3802
$C_{10}H_{13}NO_4$	3,4-Dicarbethoxy-pyrrole	500-4000	S, Sol	Spec, Struc, Freq assign	Eisner	JCS - (1958)	971
$C_{10}H_{13}NO_4$	3,4-Diethylpyrrole-2,5-dicarboxylic acid	500-4000	S	Spec, Struc, Freq assign	Eisner	JCS - (1958)	971

$C_{10}H_{13}NO_4$	400-5000	S	Spec, Struc, Freq assign	Eisner	JCS - (1958)	971
2,4-Dimethyl-3-carbethoxypyrrole-5-carboxylic acid						
$C_{10}H_{13}NO_4$	400-5000	S	Spec, Struc, Freq assign	Eisner	JCS - (1958)	971
2,4-Dimethyl-5-ethylcarboxy pyrrole-3-carboxylic acid						
$C_{10}H_{13}N_2O_3$	700-3500	S	Ident, Assign	Davison	JCS - (1955)	3389
2,3-Dimethoxybenzaldehyde semicarbazone						
$C_{10}H_{13}N_2O_3$	800-3000	Sol	I, Band study	Katritzky	JCS - (1958)	2195
2-Morpholinoylamino pyridine-N-oxide						
$C_{10}H_{13}N_3O_6$	2-15 μ	S	Freq, Assign	Reimschuessel	JACS 82 (1960)	3756
2-Dicarbethoxymethyl-4,6-dihydroxy-S-triazine						
$C_{10}H_{13}N_5$	6-14 μ	S	Spec	Finne gan	JACS 77 (1955)	4420
1-Methyl-5-(2,6-xylyl)amino-tetrazole						
$C_{10}H_{13}N_5$	6-14 μ	S	Spec	Finne gan	JACS 77 (1955)	4420
1-(2,6-Xylyl)-5-methylamino-tetrazole						
$C_{10}H_{13}N_5O_3$	-	-	Struct	Bentley	JCS - (1951)	2301
Cordycepin						
$C_{10}H_{13}N_5O_4$	10.5 μ	S	Band freq	Schwarz	APS 6 (1952)	15
Adenosine						
$C_{10}H_{13}N_5O_5$	2-16 μ	S	Spec, Ident	Davoll	JACS 73 (1951)	3174
9- β -D-Ribofuranosylisoquinine						
$C_{10}H_{13}OAS$	-	-	Freq	Beeby	JCS - (1951)	886
Tetrahydro-4-phenyl-1,4-oxarsine						

$C_{10}H_{13}O_2SB$	n-Butyl o-phenylene-thioborate	6-14/ μ	L,S	Group freq, Struc	Blau	JCS -	(1960)	380
$C_{10}H_{13}O_2B$	o-Phenylene t-butylboronate	6-14/ μ	L,S	Group freq, Struc	Blau	JCS -	(1960)	380
$C_{10}H_{13}O_2B$	n-Butyl o-phenyleneborate	6-14/ μ	L,S	Assign, Struc	Blau	JCS -	(1960)	380
$C_{10}H_{14}$	n-Butylbenzene	3.1-3.6/ μ	L	Spec, Freq	Barnes	PR	35 (1930)	1524
		1300-1700	-	Freq, Spec	Barnes	IEC	15 (1943)	659
		8000-9000	Sol	Group study	Hibbard	AC	24 (1949)	486
		3.2-3.6/ μ	Sol	Assign, Spec	Plyler	JRNB	43 (1949)	45
		2-15/ μ	-	Spec, Ident	Craig	JACS	73 (1951)	1191
		-	-	Group study	Hastings	AC	24 (1952)	612
		-	Sol	Analysis, Calibration	Williams	AC	24 (1952)	1911
		400-4300	L,Sol	Spec, Freq	Meltzer	JACS	75 (1953)	1355
		-	Sol	Freq, Substitution	Potts	AC	27 (1955)	1027
		-	Sol	Band freq, I	Randle	TFS	52 (1956)	9
		15-35/ μ	S	Spec, Struct	Bentley	SA	15 (1959)	165
		8.9-9.92/ μ	Sol	Analysis	Jakobsen	AC	31 (1959)	1600
		2-15/ μ	L	Spec, Struct	Hawkes	SA	16 (1960)	633
900-1050	Sol	Group study	Puttnam	JCS -	(1960)	2934		
$C_{10}H_{14}$	s-Butylbenzene	1000-1800	-	Freq, Spec	Barnes	IEC	15 (1943)	659
		3.2-3.6/ μ	Sol	Assign, Spec	Plyler	JRNB	43 (1949)	37
		-	-	Analysis	Perry	AC	22 (1950)	1122
		-	-	Analysis	Perry	AC	23 (1951)	495
		-	Sol	Analysis, Calibration	Williams	AC	24 (1952)	1911
		400-4300	L,Sol	Spec, Freq	Meltzer	JACS	75 (1953)	1355
		-	Sol	Freq, Substitution	Potts	AC	27 (1955)	1027
		-	Sol	Band freq, I	Randle	TFS	52 (1956)	9
		15-35/ μ	S	Spec, Struct	Bentley	SA	15 (1959)	165
		8.9-9.92/ μ	Sol	Analysis	Jakobsen	AC	31 (1959)	1600
		2-15/ μ	L	Spec, Struct	Hawkes	SA	16 (1960)	633
		900-1050	Sol	Group study	Puttnam	JCS -	(1960)	2934
		$C_{10}H_{14}$	t-Butylbenzene	1000-1800	-	Freq, Spec	Barnes	IEC
700-3100	L,S			Spec	Richards	PRS	155 (1948)	1
8000-9000	Sol			Group study	Hibbard	AC	21 (1949)	486

$C_{10}H_{14}$	Cosmene	22-39 μ	L	Freq	Plyler	JCP	17 (1949)	718
		3.2-3.6 μ	Sol	Assign, Spec	Plyler	JRNB	43 (1949)	37
		-	-	Group study	Hastings	AC	24 (1952)	612
		-	Sol	Analysis, Calibration	Williams	AC	24 (1952)	1911
		625-900	-	Freq, Analysis	Martin	AC	26 (1954)	1886
		-	Sol	Substitution effect	Margoshes	SA	7 (1955)	14
		-	Sol	Freq, Substitution	Potts	AC	27 (1955)	1027
		-	Sol	Band freq, I	Randle	TFS	52 (1956)	9
		15-35 μ	S	Spec, Struct	Bentley	SA	15 (1959)	165
		900-1030	Sol	Group study	Putnam	JCS	- (1960)	2934
$C_{10}H_{14}$	2,4,6,8-Deca-tetraene	-	-	Ident	Naylor	JCS	- (1954)	4006
		2-15 μ	L	Purification	Sorenson	ACS	8 (1959)	284
$C_{10}H_{14}$	1,2-Diethylbenzene	1400-2000	Sol	Spec	Blout	JACS	70 (1948)	194
		-	-	Spec	Perry	AC	22 (1950)	1122
		10-11 μ	-	Analysis	Perry	AC	23 (1951)	495
		-	Sol	Analysis	Williams	AC	24 (1952)	1911
		-	-	Analysis	Blau	JACS	75 (1953)	3330
$C_{10}H_{14}$	1,3-Diethylbenzene	15-35 μ	S	Freq	Bomstein	AC	25 (1953)	512
		-	-	Spec, Struct	Bentley	SA	15 (1959)	165
		-	-	Spec	Perry	AC	22 (1950)	1122
		11-12 μ	-	Analysis	Perry	AC	23 (1951)	495
		-	Sol	Analysis	Williams	AC	24 (1952)	1911
$C_{10}H_{14}$	1,4-Diethylbenzene	-	-	Analysis	Blau	JACS	75 (1953)	3330
		-	-	Freq	Bomstein	AC	25 (1953)	512
		-	-	Analysis	Lien	JACS	75 (1953)	2407
		700-1000	S,Sol	Substitution effect	Bellamy	JCS	- (1955)	2818
		15-35 μ	S	Spec, Struct	Bentley	SA	15 (1959)	165
$C_{10}H_{14}$	1,4-Diethylbenzene	-	-	Spec	Perry	AC	22 (1950)	1122
		3-12 μ	Sol	Spec	Cram	JACS	73 (1951)	5691
		8.79-8.92 μ	-	Analysis	Perry	AC	23 (1951)	495
		-	-	Group study	Hastings	AC	24 (1952)	612
$C_{10}H_{14}$	1,4-Diethylbenzene	-	Sol	Analysis	Williams	AC	24 (1952)	1911

	-	-	Analysis	Bleu	JACS	75 (1953)	3330
	-	-	Band freq	Bomstein	AC	25 (1953)	512
	15-35 μ	S	Spec, Struct	Bentley	SA	15 (1959)	165
$C_{10}H_{14}$	-	Sol	Analysis	Williams	AC	24 (1952)	1911
1,2-Dimethyl-3-ethylbenzene	-	-	Freq	Podall	AC	29 (1957)	1423
$C_{10}H_{14}$	-	Sol	Analysis	Williams	AC	24 (1952)	1911
1,2-Dimethyl-4-ethylbenzene	-	-	Analysis	Williams	AC	24 (1952)	1911
$C_{10}H_{14}$	-	Sol	Ident	Schlatter	JACS	76 (1954)	4952
1,3-Dimethyl-2-ethylbenzene	-	-	Freq	Podall	AC	29 (1957)	1423
$C_{10}H_{14}$	-	Sol	Analysis	Williams	AC	24 (1952)	1911
1,3-Dimethyl-4-ethylbenzene	-	L	Ident	Pines	JACS	77 (1955)	4370
$C_{10}H_{14}$	-	-	Freq	Podall	AC	29 (1957)	1423
$C_{10}H_{14}$	-	Sol	Analysis	Williams	AC	24 (1952)	1911
1,3-Dimethyl-5-ethylbenzene	-	Sol	Spec, Freq, Assign	Mc Caulley	JACS	76 (1954)	2354
$C_{10}H_{14}$	700-1000	S	Substitution effect	Bellamy	JCS	- (1955)	2818
	-	L	Ident	Pines	JACS	77 (1955)	4370
	15-35 μ	S	Spec, Struct	Bentley	SA	15 (1959)	165
$C_{10}H_{14}$	-	Sol	Analysis	Williams	AC	24 (1952)	1911
1,4-Dimethyl-2-ethylbenzene	-	-	Freq	Podall	AC	29 (1957)	1423
$C_{10}H_{14}$	-	L	Group freq, I	Allan	JCS	15 (1955)	1874
2,6-Dimethyl-1-trans-3,5,7-octatetraene	-	-	-	-	-	-	-
$C_{10}H_{14}$	24-40 μ	-	Absorp freq	Plyler	JCP	16 (1948)	1008
Isobutylbenzene	8.56-8.79 μ	-	Analysis	Perry	AC	23 (1951)	495
	-	Sol	Analysis, Calibration	Williams	AC	24 (1952)	1911
	-	L	Freq, Substitution	Potts	AC	27 (1955)	1027
	15-35 μ	S	Spec, Struct	Bentley	SA	15 (1959)	165
$C_{10}H_{14}$	2-15 μ	L	Spec, Struct	Hawkes	SA	16 (1960)	633
2-Methyl-2-phenylpropane	-	-	-	-	-	-	-

C ₁₀ H ₁₄	2-Methyl-3-phenylpropane	2-15 μ	L	Spec, Struct	Hawkes	SA	16 (1960)	633
C ₁₀ H ₁₄	1-Methyl-2-isopropylbenzene	-	- Sol	Analysis Analysis	Ipatieff Williams	JOC AC	17 (1952) 24 (1952)	1431 1911
C ₁₀ H ₁₄	1-Methyl-3-isopropylbenzene	-	- Sol	Analysis Analysis	Ipatieff Williams	JOC AC	17 (1952) 24 (1952)	1431 1911
C ₁₀ H ₁₄	1-Methyl-4-isopropylbenzene	-	-	Band freq Absorp freq Group study	Williams Barnes Hibbard	JCP IEC AC	4 (1936) 15 (1943) 21 (1949)	460 659 486
		8000-9000	Sol	Analysis Analysis	Ipatieff Williams	JOC AC	17 (1952) 24 (1952)	1431 1911
		-	-	Band freq	Bomstein	AC	25 (1953)	512
		720-2915	-	Ident, I	Aebi	JCS	- (1954)	4659
		2-12.5 μ	Sol	Spec, Group freq	O'Connor	AC	26 (1954)	1726
		-	-	Ident	Pines	JACS	77 (1955)	343
		-	L	Ident	Pines	JACS	77 (1955)	4370
		700-1700	Sol	Freq assign, Substitution effect	Katritzky	JCS	- (1959)	2051
		900-1030	Sol	Group study	Puttnam	JCS	- (1960)	2934
C ₁₀ H ₁₄	1-Methyl-2-n-propylbenzene	-	Sol	Analysis Table	Williams Pines	AC JACS	24 (1952) 77 (1955)	1911 554
C ₁₀ H ₁₄	1-Methyl-3-n-propylbenzene	8.88-13.47 μ	-	Analysis Table	Williams Pines	AC JACS	24 (1952) 77 (1955)	1911 554
C ₁₀ H ₁₄	1-Methyl-4-n-propylbenzene	8.52-13 μ	-	Analysis Table	Williams Pines	AC JACS	24 (1952) 77 (1955)	1911 554
C ₁₀ H ₁₄	1,2,3,4-Tetramethylbenzene	7.21-13 μ	-	Analysis Analysis Table	Williams Ipatieff Pines	AC JACS JACS	24 (1952) 75 (1953) 77 (1955)	1911 3323 554
C ₁₀ H ₁₄		2.75-15 μ	-	Thermo	Kassel	JCP	4 (1936)	276
		-	L,Sol	Substitution, Freq	Leuner	AC	23 (1951)	1875
		900-1050	Sol	Analysis	Williams	AC	24 (1952)	1911
		1650-2000	Sol	Group study	Handle	JCS	- (1955)	3497
		-	-	Freq assign	Whiffen	SA	7 (1955)	253

$C_{10}H_{14}$	1,2,3,5-Tetramethyl- benzene	- - - - 900-1050 1650-2000 - 15-35 μ	- - Sol L Sol - - S	Thermo Purity Analysis Ident Group study Freq assign Freq Spec, Struct	Kassel Mc Caulay Williams Pines Randle Whiffen Podall Bentley	JCP JACS AC JACS JCS SA AC SA	4 73 24 77 - 7 29 15	(1936) (1951) (1952) (1955) (1955) (1955) (1957) (1959)	276 2013 1911 4370 3497 253 1423 165
$C_{10}H_{14}$	1,2,4,5-Tetramethyl- benzene	- 700-3100 650-2000	- L,S Sol	Thermo Spec Band freq, Struct, Substitution Group study Anal Group study Assign freq Spec, Struct	Kassel Richards Cannon	JCP PRS SA	4 195 4	(1936) (1948) (1951)	276 1 373
$C_{10}H_{14}ClN.HCl$	dl-1-1-Phenyl-1-chloro- 2-methylaminopropane hydrochloride	- - 900-1050 1650-2000 15-35 μ	- Sol Sol - S	Group study Anal Group study Assign freq Spec, Struct	Hastings Williams Randle Whiffen Bentley	AC AC JCS SA SA	24 24 - 7 15	(1952) (1952) (1955) (1955) (1959)	612 1911 3497 253 165
$C_{10}H_{14}ClN.HCl$	dl-1-1-Phenyl-1-chloro- 2-methylaminopropane hydrochloride	600-1800	S	Spec	Kanzawa	BCSJ	29	(1956)	398
$C_{10}H_{14}ClN.HCl$	dl-d- ψ -1-Phenyl-1- chloro-2-methyl- aminopropane hydro- chloride	600-3600	S	Spec	Kanzawa	BCSJ	29	(1956)	398
$C_{10}H_{14}ClO_3P$	Diethyl p-chloro- phenylphosphonate	2-21 μ -	L -	Spec, Struct Freq	Daasch Bell	AC JACS	23 76	(1951) (1954)	853 5185
$C_{10}H_{14}ClO_4P$	Diethyl p-chlorophenyl- phosphate	-	-	Freq assign	Ketelaar	ETC	78	(1959)	190
$C_{10}H_{14}F_4O_2$	1,2-Di-n-propoxy-3,3, 4,4-tetrafluoro- cyclobutene	2-15 μ	L	Spec, Struct	Park	JACS	71	(1949)	2337

$C_{10}H_{14}I_2$	Durene-iodine complex	-	-	Mol. const	Morcillo	ARS 56 (1960)	263
$C_{10}H_{14}N$	Metanicotine	2-15 μ	L, Sol	Spec, Table	Eddy	AC 26 (1954)	1428
$C_{10}H_{14}NO_2^B$	O-Phenylene diethyl-aminoboronate	6-14 μ	L, S	Group freq, Struct	Blau	JCS - (1960)	380
$C_{10}H_{14}NO_5 \cdot H_2O$	N-Phosphoryl-DL-phenylalanine methyl ester hydrate	3-15 μ	L, S	Spec, Group freq	Li So	JACS 77 (1955)	3519
$C_{10}H_{14}NO_5^B$	Parathion	3-15 μ 700-1630	Sol L	Spec Spec, Freq	Edwards Bellamy	AC 21 (1949) JCS - (1952)	1567 475
$C_{10}H_{14}NO_6^P$	Diethyl o-nitro-phenylphosphate	-	-	Freq	Bell	JACS 76 (1954)	5185
$C_{10}H_{14}NO_6^P$	Diethyl p-nitro-phenylphosphate	700-1650	L	Spec Freq	Bellamy Bell	JCS - (1952) JACS 76 (1954)	475 5185
$C_{10}H_{14}N_2$	Anabesine	1550-3700	L, Sol	Band freq, Spec	Marion	JACS 73 (1951)	305
$C_{10}H_{14}N_2$	γ -Isopropylidene-pimelonitrile	700-4000	L	Spec, Struct	Frank	JACS 71 (1949)	1387
$C_{10}H_{14}N_2$	Nicotine	- 2-12 μ 2-15 μ 2.7-7.0 μ	- - L, Sol L	Solvent effect Spec Spec, Table Spec	Gordy Loofbourov Eddy Witkop	JCP 7 (1939) RMP 12 (1940) AC 26 (1954) JACS 76 (1954)	73 267 1428 5597
$C_{10}H_{14}N_2 \cdot HCl$	Nicotine hydrochloride	2.5-7.0 μ	Sol	Spec, Group freq	Witkop	JACS 76 (1954)	5597
$C_{10}H_{14}N_2 \cdot 2HCl$	Nicotine dihydrochloride	2.5-7.0 μ	Sol	Spec, Group freq	Witkop	JACS 76 (1954)	5597
$C_{10}H_{14}N_2O$	N-Acetyl-N,N'-dimethyl-O-phenylenediamine	2-15 μ	Sol	Freq, Struct	Smith	JACS 71 (1949)	1092

$C_{10}H_{14}N_2O$	4-(1-Cyclohexenyl)-5-amino-2-pyrrolidone	-	S	Band freq, Struct	Fanta	JACS 76 (1954)	2915
$C_{10}H_{14}N_2O$	4-Cyclohexylidene-5-amino-2-pyrrolidone	-	S	Band freq, Struct	Fanta	JACS 76 (1954)	2915
$C_{10}H_{14}N_2O$	2-Hydroxypropanal-N'-methylphenylhydrazone	650-4000	S	Freq, H bond	Tanner	SA 15 (1959)	20
$C_{10}H_{14}N_2O_2$	2,5-Bis-dimethylamino-p-benzoquinone	-	S	Freq	Brown	JCS - (1954)	1280
$C_{10}H_{14}N_2O_2$	3,6-Bis-dimethylamino-p-benzoquinone	2200-8000	Sol	Band freq	Buckley	JCS - (1957)	4891
$C_{10}H_{14}N_2O_2$	2,5-Dioxo-4,7,7-trimethyl-bicyclo[4.1.0]hept-3-ene dioxime	-	-	Band freq	Corey	JACS 76 (1954)	5257
$C_{10}H_{14}N_2O_3$	Alurate	2-16/ μ 2.5-16/ μ -	Sol S -	Spec, Freq Spec, Ident Ident	Umberger Levi Cleverley	AC 24 (1952) AC 28 (1956) ANA 85 (1960)	1309 1591 582
$C_{10}H_{14}N_2O_3$	2,7-Dimethoxyoxycycloheptatrienecarboxylic hydrazide	746-3226	S	Table	Johns	JCS - (1954)	4605
$C_{10}H_{14}N_2O_3$	2-Methyl-4-hydroxy-(2'-tetrahydro-pyranloxy)pyrimidine	650-3600	S	Group study	Tanner	SA 8 (1956)	9
$C_{10}H_{14}N_2O_4$	4,6-Dihydroxy-2-methyl-5-(2'-tetrahydropranyloxy)pyrimidine	650-3600	S	Group study	Tanner	SA 8 (1956)	9

Chemical Formula	Chemical Name	Wavenumber Range	State	Ident	Author	Year	Page
$C_{10}H_{14}N_2O_5$	Thymidine	-	-	Ident	Michelson	(1955)	816
$C_{10}H_{14}NO_4$	p-Dimethylamino-benzaldehyde semicarbazone	700-3500	S	Assign, Ident	Davison	(1955)	3389
$C_{10}H_{14}NO_4$	7-Propyltheophyllin	-	-	Struct, Spec	Zelnik	(1960)	1917
$C_{10}H_{14}N_5O_6P$	Deoxyadenylic acid	-	-	Ident	Hayes	(1955)	808
$C_{10}H_{14}N_5O_7P$	Adenylic acid-a	1-15.5 μ	S	Spec, Ident, Struct	Brown	(1952)	44
$C_{10}H_{14}N_5O_7P$	Adenylic acid-b	1-15.5 μ 9-11 μ	S	Spec, Ident, Struct Band freq	Brown Schwarz	(1952) 6 (1952)	44 15
$C_{10}H_{14}N_5O_7P$	5-Adenylic acid	1-15.5 μ 9-11 μ 3.03-13.9 μ	S	Spec Band freq Table, I	Brown Schwarz Brown	(1952) 6 (1952) (1954)	44 15 1448
$C_{10}H_{14}N_5O_7P$	Yeast adenylic acid	700-1400	S	Group freq, Spec	Dekker	(1954)	3522
$C_{10}H_{14}O$	m-t-Butylphenol	650-1400	Sol	Spec	Shrewsbury	(1960)	1294
$C_{10}H_{14}O$	o-n-Butylphenol	900-1030	Sol	Group study	Puttnam	(1960)	2934
$C_{10}H_{14}O$	o-sec-Butylphenol	2.7-3.2 μ 900-1030 600-1400	Sol Sol Sol	H bond, Thermo Group study Spec	Coggeshall Puttnam Shrewsbury	(1951) (1960) (1960)	5414 2934 1294
$C_{10}H_{14}O$	o-t-Butylphenol	2.7-3.2 μ - 600-1400	Sol Sol Sol	H bond, Thermo Analysis Spec Spec	Coggeshall Scheddel Goddu Shrewsbury	(1951) (1957) (1960) (1960)	5414 1552 4533 1294
$C_{10}H_{14}O$	p-n-Butylphenol	900-1030 350-3800 600-1400	Sol Sol Sol	Group study Hammett constant Spec	Puttnam Puttnam Shrewsbury	(1960) (1960) (1960)	2934 5100 1294

$C_{10}H_{14}O$	p-s-Butylphenol	900-1030 3500-3800 650-1400	Sol Sol Sol	Group study Hammett constant Spec	Puttnam Puttnam Shrewsbury	JCS - JCS - SA 16	(1960) 2934 (1960) 5100 (1960) 1294
$C_{10}H_{14}O$	p-t-Butylphenol	1175-1825 - 3100-3700 -	- - Sol, S Sol, L, S	Absorp freq, Spec Freq Assign, Spec H bond	Barnes Coggeshall Richards Sears	IEC 15 JACS 69 JCS - JACS 71	(1943) 659 (1947) 1620 (1947) 1260 (1949) 4110
		2.7-3.2 μ - - - -	Sol Sol Sol - - Sol	H bond, Thermo Analysis Freq Band freq Analysis Spec	Coggeshall Simard Ingreham Bonstein Schedel Goddu	JACS 73 AC 23 JACS 74 AC 25 AC 29	(1951) 5414 (1951) 1384 (1952) 2297 (1953) 512 (1957) 1552 (1960) 4533
		900-1030 3500-3800 650-1400	Sol Sol Sol	Group study Hammett constant Spec	Puttnam Puttnam Shrewsbury	JCS - JCS - SA 16	(1960) 2934 (1960) 5100 (1960) 1294
$C_{10}H_{14}O$	Butyl phenyl ether	- 1050-1800 10-15 μ	- - L	Freq assign Spec Spec	Barnes Murray Patterson	IEC 15 JCP 9 AC 26	(1943) 659 (1941) 129 (1954) 823
$C_{10}H_{14}O$	Carvacrol	1050-1800 9.0-15.5 μ	- -	Spec Spec, Freq	Barnes Carpenter	IEC 15 JOC 20	(1943) 659 (1955) 401
$C_{10}H_{14}O$	2,4-Diethylphenol	650-1400	Sol	Spec	Shrewsbury	SA 16	(1960) 1294
$C_{10}H_{14}O$	2,5-Diethylphenol	650-1400	Sol	Spec	Shrewsbury	SA 16	(1960) 1294
$C_{10}H_{14}O$	2,6-Diethylphenol	3500-3800 650-1400	Sol Sol	Hammett constant Spec	Puttnam Shrewsbury	JCS - SA 16	(1960) 5100 (1960) 1294
$C_{10}H_{14}O$	3,5-Diethylphenol	650-1400	Sol	Spec	Shrewsbury	SA 16	(1960) 1294
$C_{10}H_{14}O$	3,5-Dimethyl-4-ethylphenol	650-1400	Sol	Spec	Shrewsbury	SA 16	(1960) 1294

$C_{10}H_{14}O$	1,1-Dimethyl-2-phenyl-ethyl alcohol	665-5000	L	Bond freq Spec	Zeiss Michinori	JACS 75 (1953) 897 BCSJ 33 (1960) 1600
$C_{10}H_{14}O$	2-Ethyl-3,5-dimethyl-phenol	650-1400	Sol	Spec	Shrewsbury	SA 16 (1960) 1294
$C_{10}H_{14}O$	1-Ethyl α -methyl-benzyl ether	2-16 μ	Sol	Spec, Ident Freq, Substitution	Mislow Potts	JACS 73 (1951) 3954 AC 27 (1955) 1027
$C_{10}H_{14}O$	p-Ethylphenylmethyl-carbinol	-	-	Spec	ElieI	JACS 75 (1953) 4585
$C_{10}H_{14}O$	2-Hydroxy-5-isopropyl-2,4,6-cycloheptatriene	2-14 μ	-	Spec, Band assign	Gardner	CJC 35 (1957) 1039
$C_{10}H_{14}O$	2-Hydroxy-4-methyl-1-isopropylbenzene	900-1030	Sol	Group study	Puttnam	JCS - (1960) 2934
$C_{10}H_{14}O$	3-Isopropyl-2-methyl-phenol	9-15.5 μ 650-1400	- Sol	Spec, Freq Spec	Carpenter Shrewsbury	JOC 20 (1955) 401 SA 16 (1960) 1294
$C_{10}H_{14}O$	2-Keto- $\Delta^1(a)$ octalin	-	-	Group freq	Zeiss	JACS 75 (1953) 5935
$C_{10}H_{14}O$	Menthofuran	-	-	Band freq	Hawarth	JCS - (1955) 1983
$C_{10}H_{14}O$	Methylethylphenyl-carbinol	2-15 μ 665-5000	L L	Spec Group freq	Cram Zeiss	JACS 74 (1952) 2129 JACS 75 (1953) 897
$C_{10}H_{14}O$	ci s-8-Methylhydrind-6-ene-5-one	-	-	Freq	Conroy	JACS 74 (1952) 3046
$C_{10}H_{14}O$	2-Methyl-4-isopropyl-phenol	650-1400	Sol	Spec	Shrewsbury	SA 16 (1960) 1294
$C_{10}H_{14}O$	2-Methyl-5-isopropyl-phenol	650-1400	Sol	Spec	Shrewsbury	SA 16 (1960) 1294

$C_{10}H_{14}O$	2-Methyl-6-isopropyl-phenol	650-1400	Sol	Spec		Shrewsbury	SA	16 (1960)	1294
$C_{10}H_{14}O$	2-Methyl-4-n-propyl-phenol	650-1400	Sol	Spec		Shrewsbury	SA	16 (1960)	1294
$C_{10}H_{14}O$	3-Methyl-2-isopropyl-phenol	3500-3800	Sol	Hammett constant		Puttnam	JCS	- (1960)	5100
$C_{10}H_{14}O$	3-Methyl-4-isopropyl-phenol	3500-3800 650-1400	Sol Sol	Hammett constant, freq Spec		Puttnam Shrewsbury	JCS SA	- (1960) 16 (1960)	5100 1294
$C_{10}H_{14}O$	3-Methyl-5-isopropyl-phenol	650-1400	Sol	Spec		Shrewsbury	SA	16 (1960)	1294
$C_{10}H_{14}O$	4-Methyl-2-isopropyl-phenol	650-1400	Sol	Spec		Shrewsbury	SA	16 (1960)	1294
$C_{10}H_{14}O$	4-Methyl-2-n-propyl-phenol	650-1400	Sol	Spec		Shrewsbury	SA	16 (1960)	1294
$C_{10}H_{14}O$	5-Methyl-2-n-propyl-phenol	650-1400	Sol	Spec		Shrewsbury	SA	16 (1960)	1294
$C_{10}H_{14}O$	3-Methyl-4,5,6,7-tetrahydroindanone-1	-	-	Group freq		Hamlet	JCS	- (1951)	2652
$C_{10}H_{14}O$	3-Phenyl-2-butanol	2-15/L	L	Spec		Cram	JACS	74 (1952)	2129
$C_{10}H_{14}O$	1-Phenyl-2-methylpropanol-1	665-5000	L	Group freq		Zeiss	JACS	74 (1953)	897
$C_{10}H_{14}O$	2,3,4,5-Tetramethyl-phenol	650-1400	Sol	Spec		Shrewsbury	SA	16 (1960)	1294
$C_{10}H_{14}O$	2,3,4,6-Tetramethyl-phenol	650-1400	Sol	Spec		Shrewsbury	SA	16 (1960)	1294

$C_{10}H_{14}O$	2,3,5,6-Tetramethyl-phenol	-	Sol, L, S	H bond	Sears	JACS	71 (1949)	4110
		3500-3800	Sol	Hammett constant	Puttnam	JCS	-	5100
		650-1400	Sol	Spec	Shrewsbury	SA	16 (1960)	1294
$C_{10}H_{14}O$	Thymol	6900-7200	Sol	Substitution effect	Wulf	JACS	58 (1936)	2287
		-	S	Freq	Eastman	JACS	76 (1954)	4118
		-	Sol	Freq	Goulden	SA	6 (1954)	129
		650-1400	Sol	Spec	Shrewsbury	SA	16 (1960)	1294
$C_{10}H_{14}O$	2,6,6-Trimethyl-cycloheptadiene-2,4-one	-	L	Freq, Struc	Scott	JACS	72 (1950)	240
		-	Sol	Freq	Pauson	CR	55 (1955)	9
$C_{10}H_{14}O$	Umbellulone	-	L, Sol	Freq	Eastman	JACS	76 (1954)	4115
		-	L	Freq	Eastman	JACS	76 (1954)	4118
$C_{10}H_{14}OS_2$	2-Ethynyl-2-hydroxy-cyclohexane-1-spiro-2'-(1',3'-dithiolan)	-	S	Band freq	Jaeger	JCS	- (1955)	646
$C_{10}H_{14}OSi$	Benzoyltrimethylsilane	-	Sol	Freq	Brook	JACS	82 (1960)	5102
$C_{10}H_{14}OSi$	p-Trimethylsilyl-benzaldehyde	-	-	Group study	Frisch	JACS	75 (1953)	1249
$C_{10}H_{14}O_2$	2-(cis-2-Butenyl)-4-hydroxy-3-methyl-2-cyclopenten-1-one (Natural cinerolone)	2-15 μ	Sol, L	Spec	Cupples	JACS	72 (1950)	4522
		2.7-15 μ	-	Spec, Group freq	Crombie	JCS	- (1951)	2445
		-	S	Group freq	Allen	JOC	20 (1955)	323
$C_{10}H_{14}O_2$	2-(trans-2-Butenyl)-3-methyl-4-hydroxy-2-cyclopenten-1-one (Synthetic cinerolone)	2-15 μ	Sol, L	Spec	Cupples	JACS	72 (1950)	4522

$C_{10}H_{14}O_2$	4-t-Butylcatechol	-	Sol	Stretch freq	Ingraham	JACS 74 (1952)	2297
$C_{10}H_{14}O_2$	Camphor quinone	-	L,S	Band freq	Leonard	JACS 72 (1950)	5388
		2-16 μ	Sol	Spec, Group freq	Vaughan	JOC 18 (1953)	382
		-	Sol	Freq	Eastman	JACS 76 (1954)	4118
$C_{10}H_{14}O_2$	Chamemol	2.7-14 μ	S,Sol	Spec, Struot	Nozoe	BCSJ 28 (1955)	594
$C_{10}H_{14}O_2$	2,4,6-Cyclohepta- triene-1-carboxal- dehyde dimethyl acetal	2-16 μ	L	Spec, Ident	Cope	JACS 76 (1954)	1100
$C_{10}H_{14}O_2$	α -(1-Cyclohexenyl) vinylacetic acid	-	Sol	Band freq	Dreiding	JACS 75 (1953)	3717
$C_{10}H_{14}O_2$	β -Cyclohexyl- Δ ^{α,β} butenolide	1550-1850	Sol	Freq, I	Jones	CJC 37 (1959)	2007
$C_{10}H_{14}O_2$	Cyclohexylidene- crotonic acid	-	Sol	Band freq	Dreiding	JACS 75 (1953)	3717
$C_{10}H_{14}O_2$	trans- Δ^6 -2-Decynoic acid	-	-	Group freq	Crombie	JCS - (1952)	4338
$C_{10}H_{14}O_2$	m-Diethoxybenzene	900-3000	Sol	Group freq, Assign	Katritzky	JCS - (1959)	2062
		700-1700	Sol	Substitution, I	Katritzky	JCS - (1959)	2058
$C_{10}H_{14}O_2$	o-Diethoxybenzene	1500-5000	Sol	Group freq	Briggs	AC 29 (1957)	904
$C_{10}H_{14}O_2$	Dihydroeugenol	3-4 μ	L,Sol	Stretch freq	Tallent	AC 28 (1956)	953
$C_{10}H_{14}O_2$	3,6-Dihydroxy-3,6- dimethyl-1,7- octadiyne	-	-	Band freq	Davis	JACS 77 (1955)	3284
$C_{10}H_{14}O_2$	2,7-Dimethyl-3,5- octadiyne-2,7-diol	2-13 μ	Sol	Spec, Group freq	MIlas	JACS 75 (1953)	5970

$C_{10}H_{14}O_2$	Epoxymbellulone	-	L	Group freq	Eastman	JACS 76 (1954)	4118
$C_{10}H_{14}O_2$	Hydroquinone diethyl ether	1500-5000	Sol	Group freq	Briggs	AC	29 (1957) 904
$C_{10}H_{14}O_2$	α -Hydroxyumbellulone	-	S	Group freq	Eastman	JACS	76 (1954) 4118
$C_{10}H_{14}O_2$	3-Methyl-bicyclo [2:2:1]hepta-5-ene-2-carboxylic acid methyl ester	680-1000	Sol	Struct	Jones	JCS	- (1956) 4073
$C_{10}H_{14}O_2$	6-Methyl-bicyclo [4.3.0]nonane-7,8-dione(8-enol)	-	-	Group freq	Sheehan	JACS	75 (1953) 3997
$C_{10}H_{14}O_2$	ois-8-Methylhydrindan-5,7-dione enol	2-13 μ	Sol	Spec	Conroy	JACS	74 (1952) 3046
$C_{10}H_{14}O_2$	Methyl trans-3-nonen-5-ynoate	-	L	Freq	Crombie	JCS	- (1955) 1007
$C_{10}H_{14}O_2$	Nepetalactone	-	L	Freq	Meinwald	JACS	76 (1954) 4571
$C_{10}H_{14}O_2$	3,3,5-Trimethylcyclohexa-1,5-diene-carboxylic acid	-	S	Group freq	Brande	JCS	- (1954) 607
$C_{10}H_{14}O_2$	3,5,5-Trimethylcyclohexa-1,3-diene-carboxylic acid	-	S	Group freq	Brande	JCS	- (1954) 607
$C_{10}H_{14}O_2S$	n-Butyl phenyl sulfone	2.5-16 μ	L	Spec, Ident, Anal	Cope	JACS	72 (1950) 59
$C_{10}H_{14}O_2S$	sec-Butyl phenyl sulfone	2.5-15.5 μ	L	Spec, Ident, Anal	Cope	JACS	72 (1950) 59

$C_{10}H_{14}O_2S$	2-Ethynyl-2-hydroxy-cyclohexane-1-spiro-2-(1',3'-oxathiolan)	-	S	Band freq	Jaeger	JCS - (1955)	646
$C_{10}H_{14}O_2Si$	Allylbenzylsililene-diol	-	-	Band freq, Assign	Frisch	JACS 74 (1952)	4584
$C_{10}H_{14}O_3$	O-Acetyldimedone	5-10 μ	Sol	Spec, Band freq, Struct	Heymann	JACS 76 (1954)	3689
$C_{10}H_{14}O_3$	4-Acetyl-2,5-dihydro-2,3-diethefuran-5-one	1000-1800	Sol	Spec, Freq	Lacey	JCS - (1960)	3153
$C_{10}H_{14}O_3$	2-Acetyl-5,5-dimethyl-cyclohexane-1,3-dione	3.4-14.2 μ 5-10 μ 1500-2700	- Sol L	Band freq, I Spec, Struc H bond, Assign	Birch Heymann Chan	JCS - (1951) JACS 76 (1954) JCS - (1956)	3026 3689 3495
$C_{10}H_{14}O_3$	1-Hydroxy-3,5-diehoxybenzene	700-1000	S,Sol	Substitution effect	Bellamy	JCS - (1955)	2818
$C_{10}H_{14}O_3$	1-Hydroxy-1-(3,4-dimethoxyphenyl)ethane	600-4000	L	Spec, Freq	Herzert	JOC 25 (1960)	405
$C_{10}H_{14}O_3$	2-Isobutyrylcyclohexane-1,3-dione	-	S,L	Band freq	Roger	JCS - (1955)	341
$C_{10}H_{14}O_3$	Methyl 3-(1-hydroxycyclohexyl)propynoate	-	Sol	Group freq, I	Allan	JCS - (1955)	1874
$C_{10}H_{14}O_3$	Nepetalinic anhydride	-	Sol	Band freq	Mc Elvane	JACS 77 (1955)	1599
$C_{10}H_{14}O_3$	n-Propyl β -(2-furyl)propionate	800-1700 800-1500	Sol Sol	Freq, Assign Band charact, Assign Band charact, Assign	Katritzky Katritzky Katritzky	JCS - (1959) SA 16 (1960) SA 16 (1960)	657 954 964

C ₁₀ H ₁₄ O ₃ S	Field	JACS	75 (1953)	5582
β -Hydroxy-n-propyl p-tolyl sulfone				
n-Propyl p-toluene sulfonate	Bomstein	AC	25 (1953)	512
Cyclohexyl fumarate	Walton	JACS	79 (1957)	3985
2,3-Dimethoxy-5,6-dimethyl-p-benzoquinol	Vischer	JCS	- (1953)	815
2,7-Dimethyl-3,5-octadiyn-2,7-dihydroperoxide	Milas	JACS	75 (1953)	5970
Ethyl 2,5-dihydro-4,5,5-trimethyl-2-oxofurna-3-carboxylate	Lacey	JCS	- (1960)	3153
Ethylene glycol dimethacrylate	Loshack	JACS	75 (1953)	3544
Gliorosein	Vischer	JCS	- (1953)	815
Integerrineic acid lactone (trans-cis)	Adams	JACS	75 (1953)	4631
1,1,2,2-Tetracetyl-ethane	Martin	JACS	81 (1959)	130
Jacolineic monolactone	Bradbury	AJCS	9 (1956)	258
Jaconeic monolactone	Bradbury	AJC	9 (1956)	258

$C_{10}H_{14}O_5$	α -Longeneic acid	700-4000	-	Spec	Adams	JACS 71 (1949)	1180
		-	-	Spec, Ident	Adams	JACS 73 (1951)	134
		-	-	Band freq, Struct	Adams	JACS 74 (1952)	700
		-	-	Group freq	Adams	JACS 75 (1953)	4638
$C_{10}H_{14}O_5S$	1-O-p-toluenesulfonylglyceritol	800-1620	S	Band freq	Tipson	JACS 74 (1952)	1354
$C_{10}H_{14}O_6$	Jacozineic acid	2-15 μ	S,L	Spec	Bradbury	AJC 9 (1956)	258
$C_{10}H_{14}O_6$	Riddelllic acid	-	-	Group freq	Adams	JACS 75 (1953)	4638
$C_{10}H_{14}S_2$	2-Ethylidene-cyclohex-3-ene-1-spiro-2'-(1',3'-dithiolan)	-	L	Band freq	Jaeger	JCS - (1955)	646
$C_{10}H_{14}Si$	Dimethylphenylvinylsilane	3-15 μ	L	Spec	Kozima	BCSJ 27 (1954)	287
$C_{10}H_{15}Br$	8-Bromocamphene	650-3600	-	Spec	Roberts	JACS 71 (1949)	1630
$C_{10}H_{15}BrO$	Bromodihydro-umbellulone	2.5-12 μ	Sol	Spec	Eastman	JACS 75 (1953)	1029
$C_{10}H_{15}BrO$	7-Bromo-spiro [4.5]decane-6-one	-	Sol	Group freq, Table	Corey	JACS 75 (1953)	2301
$C_{10}H_{15}ClF_2O_3$	1,3,3-Triethoxy-2-chloro-4,4-difluorocyclobutene-1	2.5-15 μ	L,Sol	Spec, Struct	Park	JACS 73 (1951)	2342
$C_{10}H_{15}ClNO_6S_3$	1-Amino-2-chlorobenzene-4-sulfondisulfondiethylamide	-	-	Spec	Merian	HCA 43 (1960)	1122
$C_{10}H_{15}ClN_2O_3$	5-Ethyl-5-(β -chloroisobutyl) barbituric acid	2-16 μ	S	Spec, Band freq	Skinner	JACS 73 (1951)	3321

$C_{10}H_{15}ClO$	2-15 μ S	Spec	Freeman	AC	27 (1955)	1268
Chrysanthemum mono-carboxylic acid chloride						
$C_{10}H_{15}F_2NO_2$	0-15 μ S	Spec, Band freq	Prueth	JACS	74 (1952)	1633
3,3-Difluoro-2,4-dioxocyclobutyl-triethylammonium-betaine						
$C_{10}H_{15}N$	-	Anal, Iso, Freq	Cram	JACS	76 (1954)	5740
2-Amino-3-phenylbutane						
$C_{10}H_{15}N$	-	Freq	Bryson	JACS	82 (1960)	4858
m-t-Butylaniline						
$C_{10}H_{15}N$	1-12 μ L	Spec	Bell	JACS	47 (1925)	2192
N-n-Butylaniline	0.8-2.8 μ L	Spec	Ellis	JACS	49 (1927)	347
	720-758	Band freq	Wiberley	AC	22 (1950)	841
$C_{10}H_{15}N$	630-4000	Spec, Band freq	Leonard	JOC	18 (1953)	598
2-n-Butyl-3-methylpyridine						
$C_{10}H_{15}N$	630-4000	Spec, Band freq	Leonard	JOC	18 (1953)	598
2-n-Butyl-5-methylpyridine						
$C_{10}H_{15}N$	1-12 μ L	Spec, Group study	Bell	JACS	47 (1925)	2192
N,N-Diethylaniline	8-2.8 μ L	Spec	Ellis	JACS	49 (1927)	347
	2900-3100	Freq	Hill	JCS	- (1958)	760
$C_{10}H_{15}N$	2-15 μ L	Group study, Freq	Podall	AC	29 (1957)	1423
2,6-Dimethyl-3-isopropylpyridine						
$C_{10}H_{15}N.HCl$	650-4000	Spec	Chatten	AC	31 (1959)	1581
d-Methamphetamine hydrochloride						
$C_{10}H_{15}N$	-	Group freq	Westfahl	JACS	77 (1955)	936
2-(1-Methylcyclohexyl) acrylonitrile						
$C_{10}H_{15}N$	2-15 μ L	Group study, Table	Podall	AC	29 (1957)	1423
2-Methyl-3-t-butylpyridine						

$C_{10}H_{15}N$	2-Methyl-5-t-butylpyridine	2-15 μ	Sol	Group study, Table	Podall	AC	29 (1957)	1423
$C_{10}H_{15}N$	2-Methyl-6-t-butylpyridine	2-15 μ	Sol	Group study, Table	Podall	AC	29 (1957)	1423
$C_{10}H_{15}NO$	2-Dimethylamino-3,5-dimethylphenol	2.7-3.0 μ	Sol	H bond	Baker	JACS	80 (1958)	5358
$C_{10}H_{15}NO$	Ephedrine	2.5-4 μ	Sol	Spec	Kanzawa	BCSJ	29 (1956)	398
$C_{10}H_{15}NO$	dl-Ephedrine	600-1600 2-8 μ	S,Sol S	Spec Spec	Kanzawa Nakanishi	BCSJ BCSJ	29 (1956) 30 (1957)	398 403
$C_{10}H_{15}NO$	1-Ephedrine	600-1600	L,S	Spec	Kanzawa	BCSJ	29 (1956)	398
$C_{10}H_{15}NO.HCl$	Ephedrine hydrochloride	650-4000	-	Spec, Group study	Chatten	AC	31 (1959)	1581
$C_{10}H_{15}NO.HCl$	dl-Ephedrine hydrochloride	600-1600 2-8 μ	S,Sol S	Spec Spec	Kanzawa Nakanishi	BCSJ BCSJ	29 (1956) 30 (1957)	398 403
$C_{10}H_{15}NO.HCl$	1-Ephedrine hydrochloride	600-1600	S	Spec	Kanzawa	BCSJ	29 (1956)	398
$C_{10}H_{15}NO$	N-Ethyl-N-2-hydroxyethylamine	0.8-2.5 μ	Sol	Spec, Analysis	Whetsel	AC	29 (1957)	1006
$C_{10}H_{15}NO$	trans- β -(4-Methyl-3-cyclohexenyl)acrylamide	650-3800	S	Spec	Snyder	JACS	72 (1950)	4096
$C_{10}H_{15}NO_2$	2-Amino-3-methoxy-3-phenylpropanol-1	2.5-4 μ	Sol	Spec	Kanzawa	BCSJ	29 (1956)	398
$C_{10}H_{15}NO_2$	2-Carboxy-3,4,5-trimethylpyrrole	500-4000	S,Sol	Spec, Freq, Assign	Eisner	JCS	- (1958)	971

Formula	Compound Name	Wavenumber (cm ⁻¹)	State	Study Type	Author	Year	Page
C ₁₀ H ₁₅ NO ₂	1,5-Diethoxyaniline	800-2600	Sol	Group study, Substitution	Whetzel	AC 30 (1958)	1598
C ₁₀ H ₁₅ NO ₂	N,N-DI-(2-hydroxyethyl)aniline	1400-2100	Sol	Group study, Freq	Whetzel	AC 30 (1958)	1594
C ₁₀ H ₁₅ NO ₂	Ethyl 2-cyano-3-ethylpent-2-enoate	-	Sol	Struct	Felt on	JCS - (1955)	2170
C ₁₀ H ₁₅ NO ₂	α-Isonitrosocamphor	-	S	Freq	Eastman	JACS 76 (1954)	4118
C ₁₀ H ₁₅ NO ₂	2-Isonitrosodihydroumbellulone	-	S	Freq	Eastman	JACS 76 (1954)	4118
C ₁₀ H ₁₅ NO ₂	cis-9-Methyldecahydroisoquinoline-1,3-dione	2-9/μ	Sol	Band freq, Spec	Backmann	JOC 19 (1954)	222
C ₁₀ H ₁₅ NO ₂	trans-9-Methyldecahydroisoquinoline-1,3-dione	2-9/μ	Sol	Band freq, Spec	Backmann	JOC 19 (1954)	222
C ₁₀ H ₁₅ NO ₂	cis-10-Methyldecahydroisoquinoline-1,3-dione (and trans)	2-9/μ	Sol	Ident, Spec	Backmann	JOC 19 (1954)	222
C ₁₀ H ₁₅ NO ₂ S	p-(α)-Aminoethylphenyl ethyl sulfone	-	S	Substitution effect	Momose	CPPT 6 (1958)	412
C ₁₀ H ₁₅ NO ₂ S.HCl	p-(β)-Aminoethylphenyl ethyl sulfone hydrochloride	-	S	Substitution effect	Momose	CPPT 6 (1958)	412
C ₁₀ H ₁₅ NO ₃	1,4,4-Triethyl-2,3,5-pyrrolidinetrione	2-16/μ	L	Spec	Skinner	JACS 72 (1950)	5569
C ₁₀ H ₁₅ NS	2-Aminobutyl phenyl sulfide	2.7-8.1/μ	L,Sol	Spec, Analysis	Meguerian	JACS 73 (1951)	2121

$C_{10}H_{15}NS$	2-Amino-2-methylpropyl phenyl sulfide	2.7-8.1/ μ	L,Sol	Spec, Analysis	Meguerian	JACS 73 (1951) 2121
$C_{10}H_{15}N_3O_5 \cdot HCl$	5-Methyleytosine desoxyriboside hydrochloride	2.5-15/ μ	S	Spec, Struct	Dekker	JCS - (1951) 2864
$C_{10}H_{15}N_5O_5S$	5-Nitroso-6-amino-4-D-xylosidamino-2-methylthiopyrimidine	1450-1800 2-15/ μ	S S	H bond, Spec Spec, Group freq, Assign	Brownlie Brownlie	JCS - (1948) 2265 JCS - (1950) 3062
$C_{10}H_{15}N_5O_5P_2$	Adenosine diphosphate	-	S	Ident	Khorana	JACS 76 (1954) 3517
$C_{10}H_{15}O_2$	Δ^2 -Phellandric acid	-	-	Ident	Frank	JACS 71 (1949) 3889
$C_{10}H_{15}O_2P$	Diethyl benzene-phosphonite	2-21/ μ	L	Spec, Struct	Daasch	AC 23 (1951) 853
$C_{10}H_{15}O_3P$	n-Butyl hydrogenphenylphosphonate	600-5000	L,Sol	Spec, H bond	Peppard	JINC 12 (1960) 60
$C_{10}H_{15}O_3P$	Diethyl phenylphosphonate	2-21/ μ	L	Spec, Struct Freq	Daasch Bell	AC 23 (1951) 853 JACS 76 (1954) 5185
$C_{10}H_{15}O_3PS$	Diethyl phenylthiophosphate	-	-	Freq	Bell	JACS 76 (1954) 5185
$C_{10}H_{15}O_4P$	Diethyl phenylphosphate	670-1620	L,Sol	Spec, Freq Freq	Bellamy Bell	JCS - (1952) 475 JACS 76 (1954) 5185
$C_{10}H_{15}P$	Diethylphenylphosphine	2-21/ μ	L	Spec, Assign	Daasch	AC 23 (1951) 853
$C_{10}H_{16}$	Alloocimene	750-1950	-	Spec	Barnes	IEC 15 (1943) 659

$C_{10}H_{16}$	cis,trans-allo-ocimene	2-16 μ L 2-12.5 μ Sol	Spec Spec, Group freq	Bain O'Connor	JACS AC	74 (1952) 26 (1954)	4292 1726
$C_{10}H_{16}$	trans,trans-Allo-ocimene	2-12.5 μ Sol	Spec, Group freq	O'Connor	AC	26 (1954)	1726
$C_{10}H_{16}$	Bornylene	-	Group freq	Mc Bee	JACS	77 (1955)	915
$C_{10}H_{16}$	Camphene	-	Ident, Struct	Roberts	JACS	75 (1953)	3165
		-	Ident	Vaughan	JACS	75 (1953)	3168
		2-12.5 μ Sol	Spec, Group freq	O'Connor	AC	26 (1954)	1726
		650-1700	Spec	Takehita	KKZ	59 (1956)	645
$C_{10}H_{16}$	Camphene-8-C ¹⁴	-	Ident, Band freq	Roberts	JACS	75 (1953)	3165
$C_{10}H_{16}$	Δ^3 -Carene	3-14 μ Sol 2-12.5 μ Sol	Spec, Band freq Spec, Group freq	Cole O'Connor	JCS AC	- (1954) 26 (1954)	3807 1726
		-	Spec	Naves	BSCF	- (1960)	2123
$C_{10}H_{16}$	cis-cis-1,3-Cyclo-decadiene	2-15 μ L	Spec	Blomquist	JACS	77 (1955)	998
$C_{10}H_{16}$	cis-trans-Cyclodeca-1,3-diene	670-3000 2-15 μ L	Spec, Group freq Spec	Fawcett Blomquist	JCS JACS	- (1954) 77 (1955)	2673 998
$C_{10}H_{16}$	Cyclodecyne	2-15 μ L - -	Spec, Freq Spec, Freq Band freq	Blomquist Blomquist Blomquist	JACS JACS JACS	73 (1951) 74 (1952) 75 (1953)	5510 3636 2153
$C_{10}H_{16}$	trans-1-Cyclohexyl-1,3-butadiene	5-12.5 μ L	Spec	Grummitt	JACS	74 (1952)	3924
$C_{10}H_{16}$	2,6-Dimethyl-2-bicyclo[3.2.1]octene	670-1450 L	Spec	Ipatieff	JOC	17 (1952)	272
$C_{10}H_{16}$	d-Limonene	0.5-2 μ L 2-12.5 μ Sol	Rotatory dispersion Spec, Group freq	Ingersoll O'Connor	PR AC	9 (1917) 26 (1954)	257 1726

$C_{10}H_{16}$	dl-Limonene	-	-	Quant mech Spec	Mulliken	JCP	7 (1939)	121
		1000-2000	Sol		Muller	IEC	13 (1941)	667
		1050-1800	-	Freq, Anal, Spec	Barnes	IEC	15 (1943)	659
		800-1600	L	Spec	Acheson	JCS	- (1949)	812
		2-16/ μ	L	Spec	Bain	JACS	74 (1952)	4292
		-	-	Group freq	Webb	JACS	75 (1953)	4279
		-	-	Analysis	Bryant	JACS	75 (1953)	6113
$C_{10}H_{16}$	l-Limonene	2-12.5/ μ	Sol	Spec, Group freq	O'Connor	AC	26 (1954)	1726
$C_{10}H_{16}$	1(7), δ -p-Menthadiene	6-12.4/ μ	-	Group freq, Band freq	Webb	JACS	75 (1953)	4279
$C_{10}H_{16}$	2,4(8)-Menthadiene	-	-	Analysis	Webb	JACS	75 (1953)	4279
		2-12.5/ μ	Sol	Spec, Group freq	O'Connor	AC	26 (1954)	1726
$C_{10}H_{16}$	$\Delta^3,8(9)$ -p-Menthadiene	1150-1750	-	Spec	Barnes	IEC	15 (1943)	659
		2-12.5/ μ	Sol	Spec, Group freq	O'Connor	AC	26 (1954)	1726
$C_{10}H_{16}$	Myrcene	2-12.5/ μ	Sol	Spec, Group freq	O'Connor	AC	26 (1954)	1726
$C_{10}H_{16}$	β -Myrcene	-	-	Spec	Naves	BSCF	- (1960)	2123
$C_{10}H_{16}$	Ocimene	2-12.5/ μ	Sol	Spec, Group freq	O'Connor	AC	26 (1954)	1726
$C_{10}H_{16}$	cis- $\Delta^{1,2}$ -Octalin	-	-	Reference	Benkeser	JACS	77 (1955)	3230
		2-16/ μ	L	Spec, Ident	Cope	JACS	77 (1955)	3594
$C_{10}H_{16}$	trans- $\Delta^{1,2}$ -Octalin	-	-	Reference	Benkeser	JACS	77 (1955)	3230
		2-16/ μ	L	Spec, Ident	Cope	JACS	77 (1955)	3594
$C_{10}H_{16}$	$\Delta^{1,9}$ -Octalin	-	-	Ident	Benkeser	JACS	77 (1955)	3230
		2-16/ μ	L	Spec, Ident	Cope	JACS	77 (1955)	3594
$C_{10}H_{16}$	$\Delta^{9,10}$ -Octalin	-	-	Ident	Benkeser	JACS	77 (1955)	3230
		2-16/ μ	L	Spec	Cope	JACS	77 (1955)	3594
$C_{10}H_{16}$	α -Phellandrene	-	-	Quant mech	Brnes	IEC	15 (1943)	659
		1000-1750	-	Spec	Mulliken	JCP	7 (1939)	339
		800-1550	L	Spec	Acheson	JCS	- (1949)	812

$C_{10}H_{16}$	β -Phellandrene	800-1550	L	Spec	Acheson	JCS	-	(1949)	812
	α -Pinene	0.5-2 μ	L	Rotatory dispersion	Ingersoll	PR	9	(1917)	257
		-	G	Photo chemical effect	Mayer	JACS	49	(1927)	3033
		1000-2000	Sol	Spec	Muller	IEC	13	(1941)	667
		1050-1700	-	Spec, Freq	Barnes	IEC	15	(1943)	659
		2-16 μ	L	Spec	Bain	JACS	74	(1952)	4292
		2-12.5 μ	Sol	Spec, Group freq	O'Connor	AC	26	(1954)	1726
		650-1700	-	Spec	Takehita	KKZ	59	(1956)	645
		3-4 μ	L,Sol	Group study	Tallent	AC	28	(1956)	953
$C_{10}H_{16}$	β -Pinene	1000-2000	Sol	Spec	Muller	IEC	13	(1941)	667
		1050-1800	-	Freq, Spec	Barnes	IEC	15	(1943)	659
		2-16 μ	L	Spec	Bain	JACS	74	(1952)	4292
		2-12.5 μ	Sol	Spec, Table, Group freq	O'Connor	AC	26	(1954)	1726
		700-1700	-	Ident	Takehita	KKZ	59	(1956)	648
		3-4 μ	L,Sol	Group study	Tallent	AC	28	(1956)	953
$C_{10}H_{16}$	α -Pyronene	2-12.5 μ	Sol	Spec, Group freq	O'Connor	AC	26	(1954)	1726
$C_{10}H_{16}$	β -Pyronene	2-12.5 μ	Sol	Spec, Group freq	O'Connor	AC	26	(1954)	1726
$C_{10}H_{16}$	Sylvestrene	-	-	Quant mech	Mulliken	JCP	7	(1939)	121
$C_{10}H_{16}$	α -Terpinene	-	-	Analysis	Webb	JACS	75	(1953)	4279
		2-12.5 μ	Sol	Spec, Group freq	O'Connor	AC	26	(1954)	1726
$C_{10}H_{16}$	γ -Terpinene	-	-	Analysis	Webb	JACS	75	(1953)	4279
		2-12.5 μ	Sol	Spec, Group freq	O'Connor	AC	26	(1954)	1726
$C_{10}H_{16}$	Terpinoline	1000-1700	-	Spec	Barnes	IEC	15	(1943)	659
		2-12.5 μ	Sol	Spec, Group freq	O'Connor	AC	26	(1954)	1726
$C_{10}H_{16}$	α -Thujene	2800-3150	Sol	Spec, Band freq	Cole	JCS	-	(1954)	3807
$C_{10}H_{16}$	Tricyclene	2-12.5 μ	Sol	Spec, Group freq	O'Connor	AC	26	(1954)	1726
$C_{10}H_{16}$	Turpentine (Pinene)	-	L	Absorption	Cartwright	PR	35	(1930)	415

$C_{10}H_{16}DN$	11-Azabicyclo[4.4.1]- 1-undecene-11- α_1	2-16/ μ	L	Spec, Struct	Cope	JACS 77 (1955)	3590
$C_{10}H_{16}ClN_2O_2P$	N,N'-Diethyl-p-chlorophenyl- phosphorodiamidate	-	-	Freq, Assign	Ketelaar	RTC 78 (1959)	190
$C_{10}H_{16}NO_3P$	Diethyl anilino- phosphonate	700-1620	S, Sol	Spec, Freq Freq	Bellamy Bell	JCS - (1952) JACS 76 (1954)	475 5185
$C_{10}H_{16}N_2$	p-Diethylamino- aniline	800-2600	Sol	Struct, Substitution	Whetsel	AC 30 (1958)	1598
$C_{10}H_{16}N_2$	Dihydro-meta-nicotine	2-15/ μ	Sol, L	Spec, Table	Eddy	AC 26 (1954)	1428
$C_{10}H_{16}N_2$	Sebaconitrile	-	-	Group freq	Kitson	AC 24 (1952)	334
$C_{10}H_{16}N_2O_3$	Butabarbital	2-16/ μ	Sol	Spec, Freq Ident	Umberger Cleverley	AC 24 (1952) ANA 85 (1960)	1309 582
$C_{10}H_{16}N_2O_3$	Butethal	2-16/ μ	Sol	Spec, Freq Spec Ident	Umberger Levi Cleverley	AC 24 (1952) AC 28 (1956) ANA 85 (1960)	1309 1591 582
$C_{10}H_{16}N_2O_4$	5-Ethyl-5(β -hydroxy- isobutyl)barbituric acid	2-16/ μ	S	Spec	Skinner	JACS 73 (1951)	3321
$C_{10}H_{16}N_2O_4S$	Biotin 1-sulfoxide	2-16/ μ	S	Spec, Ident	Wright	JACS 76 (1954)	4163
$C_{10}H_{16}N_2O_7$	α -Glutamylglutamic acid (LL, LD)	635-5000	S	Assign	Ellenbogen	JACS 78 (1956)	366
$C_{10}H_{16}N_2O_7$	γ -Glutamylglutamic acid (LL, DD)	635-5000	S	Assign	Ellenbogen	JACS 78 (1956)	366
$C_{10}H_{16}N_2O_8$	Ethylenediamine tetraacetic acid	1400-2000 650-3500	S S	Group freq, Struct Spec, Group freq, I	Busch Chapman	JACS 75 (1953) JCS - (1955)	4574 1766

	800-3000	S	Spec, Freq	Sawyer	JACS	80 (1958)	1597
$C_{10}H_{16}N_2O_8 \cdot \frac{1}{2}H_2O$ Ethylenediamine tetraacetic acid semihydrate		S		Sawyer	JACS	80 (1958)	1597
$C_{10}H_{16}N_4O_5S$ 6-Amino-4-D-xylosi-damino-2-methylthio-pyrimidine	2-15 μ	S	Spec, Group freq, Assign	Brownlie	JCS	- (1950)	3062
$C_{10}H_{16}N_4O_5$ 4-Amino-6-D-glucosidaminopyrimidine	2-15 μ	S	Spec, Group freq, Assign	Brownlie	JCS	- (1950)	3062
$C_{10}H_{16}N_5O_{13}P_3$ Adenosine tri-phosphate	-	S	Ident	Khorana	JACS	76 (1954)	3517
$C_{10}H_{16}O$ Camphor	0.5-2 μ	Sol	Rotatory Dispersion	Ingersoll	PR	9 (1917)	257
	-	Sol	Rotatory Dispersion	Ingersoll	JOSA	5 (1921)	156
	20-130 μ	L	Spec	Barnes	PR	39 (1932)	562
	-	Sol	Group freq	Bartlett	JACS	77 (1955)	2806
$C_{10}H_{16}O$ Citral- α and β	700-1800	L	Spec, Group study	Thompson	JCS	- (1948)	1412
	15-25 μ	L	Transparent solvent	Marrison	JSI	29 (1952)	233
	-	-	Mixtures	Harfenist	JOC	19 (1954)	1608
$C_{10}H_{16}O$ β -Decalone	-	-	Group freq	Zeiss	JACS	75 (1953)	5935
$C_{10}H_{16}O$ β -Dihydroumbellulone	-	L	Group freq	Eastman	JACS	76 (1954)	4118
$C_{10}H_{16}O$ 2,3-Epoxy-pinane	2-15 μ	Sol	Spec, Struct, Group freq	Bomstein	AC	30 (1958)	544
$C_{10}H_{16}O$ Fenchone	800-1950	-	Freq, Spec	Barnes	IEC	15 (1943)	659
	-	Sol	Group freq	Bartlett	JACS	77 (1955)	2806
$C_{10}H_{16}O$ 2-Hydroxymethyl-5-isopropyl-bicyclo[3.1.0]hex-2-ene	-	-	Freq, Assign	Dassler	A	622 (1959)	194

$C_{10}H_{16}O$	8-Methyl-cis-hydrindanone-1	-	Sol	Group freq	Jones	JACS 74 (1952)	5648
$C_{10}H_{16}O$	8-Methyl-trans-hydrindanone-1	-	Sol	Group freq	Jones	JACS 74 (1952)	5648
$C_{10}H_{16}O$	Piperitone	761-3571 700-1700	L -	Group freq Spec	Briggs Le Fevre	JCS - (1953) JCS - (1953)	3788 2496
$C_{10}H_{16}O$	d-Pulegone	-	-	Ident	Eisenbraun	JACS 77 (1955)	3383
$C_{10}H_{16}O$	Spiro [4.5]decanone-6-one	-	Sol	Table, Group freq	Corey	JACS 75 (1953)	2301
$C_{10}H_{16}O$	Spiro [4.5]decanone-1	3-13 μ	Sol	Spec Group freq	Tinker Corey	JOC 16 (1951) JACS 77 (1955)	1417 5418
$C_{10}H_{16}O$	Triallylcarbinol	-	-	Spec	Michinori	BCSJ 33 (1960)	1600
$C_{10}H_{16}OSi$	Trimethylsilyl-methyl phenyl ether	-	-	Induction effect	Josien	CPR 249 (1959)	826
$C_{10}H_{16}O_2$	Ascaridole	2-16 μ	-	Spec, Struct Analysis Band freq, I	Szmant Maruyamori Henbest	JACS 71 (1949) JPJ 72 (1952) JCS - (1954)	1133 927 800
$C_{10}H_{16}O_2$	Chrysanthemum mono-carboxylic acid	2-15 μ	S	Spec	Freeman	AC 27 (1955)	1268
$C_{10}H_{16}O_2$	(1,2),(8,9)-Diepoxy-p-menthane	2-15 μ	Sol	Spec, Struct, Group freq	Bomstein	AC 30 (1958)	544
$C_{10}H_{16}O_2$	Dihydronepetalactone	-	-	Band freq	Meinwald	JACS 76 (1954)	4571
$C_{10}H_{16}O_2$	3,7-Dimethyl-2,7-octadienoic acid	600-3800	-	Spec, Group freq	Kappeler	HCA 37 (1954)	957

$C_{10}H_{16}O_2$	Disiphenol	700-3500	S, Sol S	Spec, Group freq, Band freq	I Le Fevre Hanson	JCS - (1953) 2496 JCS - (1954) 4238
$C_{10}H_{16}O_2$	Ethyl(1-cyclohexen-1-yl)acetate	1600-1800	L	Spec, Group freq,	Struct Dauben	JACS 75 (1953) 3352
$C_{10}H_{16}O_2$	Ethyl cyclohexylideneacetate	1600-1800	L	Spec, Group freq,	Struct Dauben	JACS 75 (1953) 3352
$C_{10}H_{16}O$	α, β β -n-Hexyl- Δ -butenolide	1550-1850	Sol	Freq, I	Jones	CJC 37 (1959) 2007
$C_{10}H_{16}O_2$	2-Hydroperoxymethyl-5-isopropyl-bicyclo[3.1.0]hex-2-ene	-	-	Freq, Assign	Dassler	A 622 (1959) 194
$C_{10}H_{16}O_2$	dl-Massoiolactone	-	L	Ident, Freq	Crombie	JCS - (1955) 2535
$C_{10}H_{16}O_2$	Methyl 3(trans), 5(cis)-n-nona-dienoate	9-11 μ 2-16 μ	Sol Sol	Spec, Group freq Spec, Stereo	Celmer Celmer	JACS 75 (1953) 1372 JACS 75 (1953) 3430
$C_{10}H_{16}O_2$	Methyl 3(trans), 5(trans)-n-nona-dienoate	9-11 μ 2-16 μ	Sol Sol	Spec, Group freq Spec, Stereo	Celmer Celmer	JACS 75 (1953) 1372 JACS 75 (1953) 3430
$C_{10}H_{16}O_2$	Sebacil	2-15 μ -	L L	Spec Band freq	Blomquist Blomquist	JACS 74 (1952) 3636 JACS 75 (1953) 2153
$C_{10}H_{16}O_2$	3,3,6,6-Tetramethyl-1,2-cyclohexane-dione	-	L, S	Band freq	Leonard	JACS 72 (1950) 5388
$C_{10}H_{10}O_3$	1,2-Dihydroxydihydro-umbellulone	-	S	Freq	Eastman	JACS 76 (1954) 4418

$C_{10}H_{16}O_3$	Ethyl 5-methylcyclohexanone-2-carboxylate	-	L	Band freq	Leonard	JACS 74 (1952)	4070
$C_{10}H_{16}O_3$	Ethyl 1-methyl-2-oxocyclohexane-1-carboxylate	-	Sol	Freq	Bellamy	JCS - (1954)	4487
$C_{10}H_{16}O_3$	Ethyl β, β -pentamethylene glycidate	1600-1800	Sol	Assign, Struct	House	JACS 80 (1958)	6389
$C_{10}H_{16}O_3$	γ -(1-Hydroxycyclohexyl)crotonic acid	-	S	Band freq	Dreiding	JACS 75 (1953)	3717
$C_{10}H_{16}O_3$	Nepatalic acid	-	S, Sol	Band freq	Mc Elvane	JACS 77 (1955)	1599
$C_{10}H_{16}O_3S$	trans-2-Hydroxycyclohexanethiol diacetate	-	-	Ident, Spec	Van Tamelen	JACS 73 (1951)	3444
$C_{10}H_{16}O_4$	1,2-1,2-bis-Ethylene-dicycyclohexane	3.43-13 μ	Sol	Table, I	Jaeger	JCS - (1955)	160
$C_{10}H_{16}O_4$	α -Carbethoxy- α -ethyl- γ -n-valerolactone	2-16 μ	L	Spec, Band freq	Skinner	JACS 73 (1951)	3321
$C_{10}H_{16}O_4$	1-Carboxy-4-methylcyclohexyl-1-acetic acid	3.4-10.7 μ	-	Table, Iso	Price	JACS 76 (1954)	2301
$C_{10}H_{16}O_4$	Cyclohexane-1,2-di(spiro-2',-1',3'-dioxolan)	3.43-13 μ	Sol	Table, I	Jaeger	JCS - (1955)	160
$C_{10}H_{16}O_4$	Cyclooctane-cis-1,5-dicarboxylic acid	-	-	Ident	Cope	JACS 76 (1954)	6159

$C_{10}H_{16}O_4$				Ident	Cope	JACS	76 (1954)	6159
Cyclooctane-trans-1,5-dicarboxylic acid	-	-						
Diethyl isopropylidene malonate	2-15 μ 3-6 μ	Sol Sol S,Sol	Freq Spec, Freq Spec		Felton Abramovitch Abramovitch	JCS CJC CJC	- 36 37	(1955) 2170 (1958) 151 (1959) 361
cis-5-Hydroxy-5-methylnorcamphoric acid dimethyl ester	-	-	H bond		Hirisjarvi	SK	30	(1957) 60
trans-5-Hydroxy-5-methylnorcamphoric acid dimethyl ester	-	-	H bond		Hirisjarvi	SK	30	(1957) 60
2-Isomeric monomethyl dl-pinate	1600-4000	Sol	Spec, Ident		Francois	BSCF	-	(1959) 1606
Isopropyl fumarate	2-16 μ	L,Sol	Spec, Ident		Walton	AC	28	(1956) 1388
Isopropyl maleate	2-16 μ	L,Sol	Spec, Ident		Walton	AC	28	(1956) 1388
γ -Isopropylidene-pimelic acid	700-4000	S	Spec, Struct		Frank	JACS	71	(1949) 1387
trans-1-Methyl-2-carboxycyclohexane-1-acetic acid	-	S	Ident		Shafer	JACS	75	(1953) 5963
cis-1-Methyl-2-carboxycyclohexane-1-acetic acid	-	S	Ident		Shafer	JACS	75	(1953) 5963
3-Methylene-1,5-pentanediol diacetate	-	-	Band freq		Blomquist	JACS	77	(1955) 78

$C_{10}H_{16}O_4$	Mepepalinic acid	-	-	Ident	Mc Elvane	JACS 77 (1955)	1599
$C_{10}H_{16}O_4$	Propyl fumarate	2-16/ μ	L,Sol	Spec, Ident	Walton	AC 28 (1956)	1388
$C_{10}H_{16}O_4$	Propyl maleate	2-16/ μ	L,Sol	Spec, Ident	Walton	AC 28 (1956)	1388
$C_{10}H_{16}O_4$	Tetrahydrofurfural- dehyde dimer	-	-	Band freq, Struct	Bremmer	JCS - (1949)	527
$C_{10}H_{16}O_5$	1-Carboxy-4-methyl- cyclohexyl-1- glycolic acid	2.96-12/ μ	-	Table, Ident, Iso	Price	JACS 76 (1954)	2301
$C_{10}H_{16}O_5$	Integerrineic acid (tran-cis)	-	-	Group freq	Adams	JACS 75 (1953)	4631
$C_{10}H_{16}O_5$	Senecic acid	650-3600	S	Spec, Struct	Adams	JACS 71 (1949)	1953
$C_{10}H_{16}O_5$	Usaramoensineic acid (cis-cis)	-	-	Group freq, Struct	Adams	JACS 75 (1953)	4631
$C_{10}H_{16}O_5$	Usaramoensineic acid (cis-cis)	-	-	Cis configuration	Adams	JACS 75 (1953)	4631
$C_{10}H_{16}O_6$	Isojaconecic acid	2-15/ μ	S,L	Spec	Bradbury	AJC 9 (1956)	258
$C_{10}H_{16}O_6$	Jaconecic acid	2-15/ μ	S,L	Spec	Bradbury	AJC 9 (1956)	258
$C_{10}H_{16}O_6$	β -Longineic acid	700-4000	S	Spec	Adams	JACS 71 (1949)	1180
$C_{10}H_{16}O_6$	β -Longineic acid	600-3800	S	Spec	Warren	JACS 72 (1950)	1421
		-	-	Band freq	Adams	JACS 75 (1953)	4638
$C_{10}H_{16}O_6$	β -Methoxyethyl- fumarate	2-16/ μ	L,Sol	Spec, Ident	Walton	AC 28 (1956)	1388
$C_{10}H_{16}O_6$	β -Methoxyethyl maleate	2-16/ μ	L,Sol	Spec, Ident	Walton	AC 28 (1956)	1388
$C_{10}H_{16}S_1$	n-Butylphenylsilane	-	L,Sol	Group freq, I	Harvey	JACS 76 (1954)	4555
$C_{10}H_{16}S_1$	Phenyl-t-butylsilane	2-16/ μ	Sol	Freq	Kniseley	SA 15 (1959)	651

$C_{10}H_{16}Si$	Trimethyl-m-tolyl-silane	20-160 μ	Sol	Spec, Iso	Clark	JACS 73 (1951)	3798
$C_{10}H_{16}Si$	Trimethyl-o-tolyl-silane	20-160 μ	Sol	Spec, Iso	Clark	JACS 73 (1951)	3798
$C_{10}H_{16}Si$	Trimethyl-p-tolyl-silane	20-160 μ	Sol	Spec, Iso	Clark	JACS 73 (1951)	3798
$C_{10}H_{17}Br$	3-Bromo-cis-cyclodecene	-	L	Ident	Blomquist	JACS 77 (1955)	998
$C_{10}H_{17}Br$	Bromodihydromyrcene	700-1700	L	Spec, Ext coefficient	Bateman	JCS - (1950)	3045
$C_{10}H_{17}Br$	2-Bromo-2-methyl-3-nonyne	-	L	Band freq, Spec	Wotiz	JACS 72 (1950)	5055
$C_{10}H_{17}Br$	Geranyl bromide	700-1700	L	Spec, Ext coefficient	Bateman	JCS - (1950)	3045
$C_{10}H_{17}BrO$	2-Bromocyclo-decanone	-	Sol	Spec	Lenoard	JACS 80 (1958)	6039
$C_{10}H_{17}Cl$	Bornyl chloride	1050-1600	-	Spec	Barnes	IEC 15 (1943)	659
$C_{10}H_{17}Cl$	Geranyl chloride	700-1750	L	Spec	Barnard	JCS - (1950)	915
$C_{10}H_{17}ClO_3$	Octyl chloro-glyoxylate	1740-1800	L	Freq	Simon	JOC 23 (1958)	1078
$C_{10}H_{17}N$	11-Azabicyclo[4.4.1]-1-undecene	2-16 μ	L	Spec, Struct, Group freq	Cope	JACS 77 (1955)	3590
$C_{10}H_{17}N$	Camphenamine	-	Sol	Ident	Van Tameelen	JACS 75 (1953)	1297
$C_{10}H_{17}N$	3-Isopropylidene-2,5,5-trimethyl-pyrroline	-	Sol	Substitution effect	Meyers	JOC 24 (1959)	1233

$C_{10}H_{17}NO$	Geranamide, (α and β)	700-1800	S	Spec, Group study	Thompson	JCS -	(1948)	1412
$C_{10}H_{17}NO$	Geranamide I	700-1350	S,Sol	Spec, Struct, Group freq	Barnard	JCS -	(1950)	915
$C_{10}H_{17}NO$	Geranamide II	700-1350	S,Sol	Spec, Struct, Group freq	Barnard	JCS -	(1950)	915
$C_{10}H_{17}NO$	n-Isobutyl-cis-2-trans-4-hexadienamide	834-1268	S	Table, Band freq	Eisner	JCS -	(1953)	1372
$C_{10}H_{17}NO$	n-Isobutyl-trans-2-trans-4-hexadienamide	867-1261	S	Table, Band freq	Eisner	JCS -	(1953)	1372
		-	S	Freq	Crombie	JCS -	(1955)	1007
$C_{10}H_{17}NO_3$	Decahydro-1-naphthyl nitrate	2-15 μ	Sol	Spec, Struct, Ext coefficient	Carrington	SA	16 (1960)	1279
$C_{10}H_{17}NO_3$	Decahydro-2-naphthyl nitrate	2-15 μ	Sol	Spec, Struct, Ext coefficient	Carrington	SA	16 (1960)	1279
$C_{10}H_{17}NO_3$	Ethyl 1-ethyl-4-piperidone-3-carboxylate	-	L	Table, Band freq	Leonard	JACS	74 (1952)	4070
$C_{10}H_{17}NO_3S$	1-2-(5-Carboxypentyl)-4-thiazolidone methyl ester	-	Sol	Band freq	Mc Lamore	JACS	74 (1952)	2946
		-	S,Sol	Group freq, Struct	Mc Lamore	JACS	75 (1953)	105
$C_{10}H_{17}NO_3S$	2-Methyl-2-(4-carboxybutyl)-4-thiazolidone methyl ester	-	Sol	Group freq	Pennington	JACS	75 (1953)	109
$C_{10}H_{17}NSi$	Anilinomethyltrimethylsilane	-	-	Freq	Noll	JACS	73 (1951)	3871
		2-15 μ	-	Spec	George	JACS	77 (1955)	3493

$C_{10}H_{17}N_2PS$	N,N -Dimethylbenzene-thiophosphonic diamide	2-21 μ	S	Spec, Struct	Daasch	AC	23 (1951)	853
$C_{10}H_{17}N_3O$	trans-2-cis-6-Nonadienal semi-carbazone	2-22 μ	Sol	Spec	Sondheimier	JACS	74 (1952)	4040
$C_{10}H_{17}N_3O_6S$	Glutathione	-	-	Group freq	Cymerman	JOS	- (1951)	1332
$C_{10}H_{17}N_5O_6$	Pentaglycine	650-2000	S	Spec, Band freq	Blout	JACS	74 (1952)	1946
$C_{10}H_{18}$	cis-Bicyclo[5.3.0]decane	-	-	Band freq	Cope	JACS	77 (1955)	1628
$C_{10}H_{18}$	cis-Cyclodecene	2-15 μ 9.5-13.5 μ	L L	Spec, Ident, Band freq Freq, Analysis Ident	Blomquist Blomquist Cope	JACS JACS JACS	74 (1952) 77 (1955) 77 (1955)	3636 1001 1628
$C_{10}H_{18}$	trans-Cyclodecene	2-15 μ 9.5-13.5 μ	L L	Spec, Ident, Band freq Freq, Analysis Ident	Blomquist Blomquist Cope	JACS JACS JACS	74 (1952) 77 (1955) 77 (1955)	3636 1001 1628
$C_{10}H_{18}$	Cyclopentylcyclopentane	12.6-14.7 μ 3.16-11 μ	Sol, L Sol	Group study, Struct Table, Band freq	Francis Mc Bee	AC JACS	25 (1953) 77 (1955)	1466 4375
$C_{10}H_{18}$	Decahydroazulene	-	-	Group study	Baker	JOS	- (1953)	4149
$C_{10}H_{18}$	cis-Decahydro-naphthalene	2-15 μ 2-15 μ	- L, Sol	Instrument calibration Spec Ident Ident	Crooker Seidman Cope Cope	FR AC JACS JACS	76 (1949) 23 (1951) 77 (1955) 77 (1955)	592 559 1628 3594
$C_{10}H_{18}$	trans-Decahydro-naphthalene	2-15 μ 8000-9000 2-15 μ 15-25 μ	- Sol L, Sol L	Instrument calibration Analysis Spec Transparent solvent Ident Ident	Crooker Hibbard Seidman Marrison Cope Cope	FR AC AC JSI JACS JACS	76 (1949) 21 (1949) 23 (1951) 29 (1952) 77 (1955) 77 (1955)	592 486 559 233 1628 3594

$C_{10}H_{18}$	Dihydromyrcene	700-1800 700-1250 700-1800 2-12.5 μ Sol	- L L Sol	Spec Spec Group study, Spec Spec, Group freq	Thompson Sheppard Thompson O'Connor	TFS JCS JCS AC	41 - - 26	(1945) (1947) (1948) (1954)	246 1540 1412 1726
$C_{10}H_{18}$	2,6-Dimethyl-bicyclo [3.2.1] octane	670-1450 -	L -	Spec Ident	Ipatieff Ipatieff	JOC JOC	17 17	(1952) (1952)	272 485
$C_{10}H_{18}$	1,2-Dimethylcyclo- octene	2-16 μ	-	Spec, Struct	Cope	JACS	74	(1952)	179
$C_{10}H_{18}$	1-cis-2-Dimethyl- cis-3-isopropenyl- cyclopentane	6.08-12 μ	-	Group freq	Pines	JACS	76	(1954)	4412
$C_{10}H_{18}$	1-trans-2-Dimethyl- cis-3-isopropenyl- cyclopentane	6.07-11 μ -	- -	Band freq Ident, Iso	Ipatieff Pines	JACS JACS	75 76	(1953) (1954)	6222 4412
$C_{10}H_{18}$	3,7-Dimethyl-1,6- octadiene	6.07-15 μ	-	Group freq	Pines	JACS	76	(1954)	4412
$C_{10}H_{18}$	1-Ethylcyclooctene	3-14 μ	-	Spec, Ident	Craig	JACS	73	(1951)	1191
$C_{10}H_{18}$	1-Ethyl-2-ethylidene- cyclohexane	3-4 μ	L,Sol	Group freq	Tallent	AC	28	(1956)	953
$C_{10}H_{18}$	trans-3-Ethyl-octa- 1,5-diene	-	L,S	Ident, Group freq	Harper	JCS	-	(1955)	1512
$C_{10}H_{18}$	Isoborlone	-	-	Analysis	Ipatieff	JACS	73	(1951)	4098
$C_{10}H_{18}$	1-p-Menthene	9.8-13.2 μ	-	Analysis, Band freq	Webb	JACS	75	(1953)	4279
$C_{10}H_{18}$	1(7)-p-Menthene	6.08-12.52 μ	-	Analysis, Group freq, Band freq	Webb	JACS	75	(1953)	4279
$C_{10}H_{18}$	trans-2-Menthene	650-3500	-	Spec, Struct	Alexander	JACS	71	(1949)	1786

Formula	Compound Name	Wavenumber (cm ⁻¹)	Phase	Measurement	Author	Year
C ₁₀ H ₁₈	3-p-Menthene	650-3800	L	Spec, Freq	Frank	72 (1950) 2985
C ₁₀ H ₁₈	4(8)-p-Menthene	650-3800	L	Spec, Freq	Frank	72 (1950) 2985
C ₁₀ H ₁₈	8(9)-p-Menthene	650-3800	L	Spec, Freq	Frank	72 (1950) 2985
C ₁₀ H ₁₈	1-Methyl-1-isopropenyl-cyclohexane	2-16 μ	L	Table, I	Pines	77 (1955) 2819
C ₁₀ H ₁₈	2-Methyl-5-isopropyl-1-methylenecyclopentane	-	-	Band freq	Meinwald	76 (1954) 4571
C ₁₀ H ₁₈	Pinane	850-1560	-	Spec Analysis	Barnes	15 (1943) 659
		-	-	Spec, Group freq	Ipatieff	73 (1951) 4098
		2-12.5 μ	Sol		O'Connor	26 (1954) 1726
C ₁₀ H ₁₈	Pinane (opt. rot -11.6) (cis)	-	Sol	Band freq	Fisher	75 (1953) 3675
C ₁₀ H ₁₈	Pinane (opt. rot -20.0) trans	-	Sol	Band freq	Fisher	75 (1953) 3675
C ₁₀ H ₁₈	Thujane	3-14 μ	Sol	Spec, Band freq	Cole	- (1954) 3807
C ₁₀ H ₁₈ ^D ₂	trans-Menthane-2,3-d ₂	650-3500	-	Spec, Struct	Alexander	71 (1949) 1786
C ₁₀ H ₁₈ ^D ₂ N ₂ O ₂	N,N'-Diacetylhexamethylenediamine-d ₂	3-14 μ	S	Freq, Assign, Spec	Sandeman	PRS 232 (1955) 105
C ₁₀ H ₁₈ ^F ₂ Cl ₂ Si ₂	3-(2',2'-Dichloro-3',3'-difluorocyclobutyl)propyltrimethylsilane	10.85-11.1 μ	-	Freq	Park	JOC 25 (1960) 1628
C ₁₀ H ₁₈ ^F ₃ NO	N,N-Dibutyl-2,2,2-trifluoroethanamide	2-15 μ	L, Sol	Group study, Freq, Assign	Letaw	JCP 21 (1953) 1621
		-	-	Band freq	Berger	JACS 76 (1954) 5552
		-	L	Freq	Robson	JACS 77 (1955) 498
		-	-	Ident	Robson	JACS 77 (1955) 2453

$C_{10}H_{18}F_3NO$	N,N-Diisobutyl-trifluoroacetamide	-	L	Group freq	Robson	JACS 77 (1955)	498
$C_{10}H_{18}F_3O_3B$	Trifluoroacetoxy di-n-butylboronite	1500-1800	L	Group freq, Assign	Duncanson	JCS - (1958)	3652
$C_{10}H_{18}F_4Si$	3(2', 2', 3', 3'-Tetrafluorocyclobutyl)propyltrimethylsilane	10.8-11.1 μ	-	Freq	Park	JOC 25 (1960)	1628
$C_{10}H_{18}IN$	$\Delta^1(10)$ -Dehydroquinolizidine methiodide	-	S	Band freq	Leonard	JACS 77 (1955)	439
$C_{10}H_{18}INOS$	N,N,N-Trimethyl-2-(5-methoxy-2-thienyl)ethylammonium iodide	-	-	Band freq	Herz	JACS 77 (1955)	3529
$C_{10}H_{18}N_2O_2$	Acetylglycine-N-cyclohexylamide	2.8-3.1 μ	Sol	Spec, Struct, Group freq	Mizushima	JACS 76 (1954)	2479
$C_{10}H_{18}N_2O_2$	Cyclohexyl ammonium - β -cyanopropionate	-	-	Group freq	Hurwitz	JACS 77 (1955)	3251
$C_{10}H_{18}N_4O_5$	2-Cyclohexylamino-5,5-dinitro-3-aza-4-oxa-2-hexene	-	S	Group freq, I	Belew	JACS 77 (1955)	1110
$C_{10}H_{18}N_6$	N-(Hexahydro)benzylmelamine	2-16 μ	S	Spec, Struct, Assign	Padgett	JACS 80 (1958)	803
$C_{10}H_{18}O$	Cineole	1050-1800 2564-2689	-	Spec H bond, Freq	Barnes Searle	IBJ 15 (1943) JACS 73 (1951)	659 3704
$C_{10}H_{18}O$	Citronellal, (α and β)	700-1800 700-1750	L L	Group study, Spec Spec, Analysis	Thompson Carroll	JCS - (1948) JCS - (1950)	1412 3457

$C_{10}H_{18}O$	Cyclodecanone	2-15 μ	L	Spec Ident H bond Group freq Stretch freq	Blomquist Cope Pirchas Leonard Burer	JACS 74 (1952) 3636 JACS 77 (1955) 1628 AC 29 (1957) 334 JACS 80 (1958) 6039 HCA 43 (1960) 1487
$C_{10}H_{18}O$	trans-5-Cyclodecen-1-ol	2-16 μ	Sol	Spec	Cope	JACS 77 (1955) 3594
$C_{10}H_{18}O$	Deca-cis-2-cis-4-dienol	2.5-15 μ	L	Spec, Group assign	Crombie	JCS - (1955) 1007
$C_{10}H_{18}O$	Deca-cis-2-trans-4-dienol	2.5-15 μ	L	Spec, Group assign	Crombie	JCS - (1955) 1007
$C_{10}H_{18}O$	Deca-trans-2-cis-4-dienol	2.5-15 μ	L	Spec, Group assign	Crombie	JCS - (1955) 1007
$C_{10}H_{18}O$	Deca-trans-2-trans-4-dienol	2.5-15 μ	L	Spec, Group assign	Crombie	JCS - (1955) 1007
$C_{10}H_{18}O$	cis- α -Decalol	665-5000	L	Group freq	Zeiss	JACS 75 (1953) 897
$C_{10}H_{18}O$	cis-18-2-Decalol	1000-1100	Sol	Spec, Band freq	Dauben	JACS 74 (1952) 5206
$C_{10}H_{18}O$	trans-5 β -2-Decalol	1000-1100	Sol	Spec, Band freq	Dauben	JACS 74 (1952) 5256
$C_{10}H_{18}O$	trans-7 β -2-Decalol	1000-1100	Sol	Spec, Band freq	Dauben	JACS 74 (1952) 5206
$C_{10}H_{18}O$	cis-10 β -2-Decalol	1000-1100	Sol	Spec, Band freq	Dauben	JACS 74 (1952) 5206
$C_{10}H_{18}O$	Dec-1-yn-4-ol	-	-	Freq	Crombie	JCS - (1955) 1740
$C_{10}H_{18}O$	1,2-Epoxy-p-menthane	2-15 μ	Sol	Spec, Struct, Freq	Bomstein	AC 30 (1958) 544
$C_{10}H_{18}O$	Fenchyl alcohol	665-5000	L	Group freq	Zeiss	JACS 75 (1953) 897

$C_{10}H_{18}O$	Geraniol (α and β)	700-1800 2-15 μ 700-1800	L - L	Spec, Group study Spec Spec, Group freq, Struct	Thompson Saunders Barnard	JCS - JAP 20 JCS -	(1948) (1949) (1950)	1412 953 915
$C_{10}H_{18}O$	4-Hydroxydeca- 1,2-diene	700-1750 -	L -	Spec Component of mixtures	Carroll Harpenfst	JCS - JOC 19	(1950) (1954)	3457 1608
$C_{10}H_{18}O$	2-Hydroxymethyl-6- methyl-bicyclo [3.2.1]octane	670-1450	Sol, L	Spec	Ipatieff	JOC 17	(1952)	272
$C_{10}H_{18}O$	1-(2-Hydroxy-2- propyl)-2-iso- propenylcyclo- butane	-	-	Struct, Band freq	Alberman	JCS -	(1951)	779
$C_{10}H_{18}O$	Isopulegol	700-1750	L	Spec, Struct, Band freq	Carroll	JCS -	(1950)	3457
$C_{10}H_{18}O \cdot H_2O$	cis-Isopulegol hydrate	-	-	Group freq	Macbeth	JCS -	(1952)	4748
$C_{10}H_{18}O \cdot H_2O$	trans-Isopulegol hydrate	-	Sol	Group freq, Band freq	Zimmerman	JACS 75	(1953)	2367
$C_{10}H_{18}O \cdot H_2O$	Linalol	700-1800 700-1700	L L	Spec, Group study Spec, Group freq, Struct	Thompson Barnard	JCS - JCS -	(1948) (1950)	1412 915
$C_{10}H_{18}O$	d-p-Menth-1-en-4-ol	700-1750	L	Spec, Analysis	Carroll	JCS -	(1950)	3457
$C_{10}H_{18}O$	Menthone	-	-	Spec	Naves	BSCF -	(1960)	2123
$C_{10}H_{18}C$		1650-1800 700-1700	Sol -	Ext coefficient Spec, Group freq	Cross Le Fevre	TFS 47 JCS -	(1951) (1953)	354 2496

C ₁₀ H ₁₈ ⁰	2-Methyl-3-nonyl-2	-	L	Spec, Band freq	Wotiz	JACS	72 (1950)	5055
C ₁₀ H ₁₈ ⁰	Nerol	2-15 μ 700-1800	-	Spec Spec, Group freq, Struct	Saunders Barnard	JAP JCS	20 -	(1949) 953 (1950) 915
C ₁₀ H ₁₈ ⁰	cis-Pinanol-2	-	Sol	Band freq, Ident	Fisher	JACS	75	(1953) 3675
C ₁₀ H ₁₈ ⁰	trans-Pinanol-2	-	Sol	Band freq	Fisher	JACS	75	(1953) 3675
C ₁₀ H ₁₈ ⁰	2-n-Propylcycloheptanone	-	-	Group freq, Ident	Brande	JCS	-	(1953) 2202
C ₁₀ H ₁₈ ⁰	2-Propylidene-cycloheptanol	-	-	Group freq, Band freq	Brande	JCS	-	(1953) 2202
C ₁₀ H ₁₈ ⁰	d-trans-Pulegol	-	-	Group freq, Struct	Macbeth	JCS	-	(1952) 4748
C ₁₀ H ₁₈ ⁰	α -Terpineol	1000-2000 1050-1650	Sol	Spec Spec	Muller Barnes	IEC IEC	13 15	(1941) 667 (1943) 659
C ₁₀ H ₁₈ ⁰	β -Terpineol	1000-2000 1050-1650	Sol	Spec Spec	Muller Barnes	IEC IEC	13 15	(1941) 667 (1943) 659
C ₁₀ H ₁₈ ⁰	2,2,5,5-Tetramethyl-3,4-cyclobutanotetrahydrofuran	-	-	Struct	Alberman	JCS	-	(1951) 779
C ₁₀ H ₁₈ ⁰	2,2,6,6-Tetramethylcyclohexanone	400-4000	Sol	Spec, Ext coefficient	Cummins	JCS	-	(1957) 3847
C ₁₀ H ₁₈ ⁰	Thujyl alcohol	665-5000	L	Group freq	Zeiss	JACS	75	(1953) 897
C ₁₀ H ₁₈ ^{0,2}	2-Butyl-3-ethyl-3-butenic acid	2-16 μ	-	Spec, Freq	Wotiz	JACS	74	(1952) 2559
C ₁₀ H ₁₈ ^{0,2}	Cyclopentanone-pinacol	-	Sol	Freq	Kuhn	JACS	74	(1952) 2492

$C_{10}H_{18}O_2$	cis-Decalin-cis-1,2-diol	-	-	Ident	Cope	JACS 77 (1955)	3594
$C_{10}H_{18}O_2$	1,1-Diallyloxybutane	-	Sol	Group freq	Davison	JCS - (1953)	2607
$C_{10}H_{18}O_2$	Dipivaloyl	-	L,S L	Group freq Band freq	Leonard Leonard	JACS 72 (1950) JACS 75 (1953)	5388 3300
$C_{10}H_{18}O_2$	β -n-Hexylbutanolide	1550-1850	Sol	Freq	Jones	CJC 37 (1959)	2007
$C_{10}H_{18}O_2$	Hexyl methacrylate	2-15 μ	L	Assign, Spec	Walton	JACS 79 (1957)	3985
$C_{10}H_{18}O_2$	cis-p-Menth-2-ene-1,4-diol	650-3100	Sol	Band freq, I	Henbest	JCS - (1954)	800
$C_{10}H_{18}O_2$	β -Methyl-2-nonenic acid	5.5-16 μ	L,Sol	Spec, Struct	Freeman	JACS 75 (1953)	1859
$C_{10}H_{18}O_2$	dl-Pinanic acid	1600-4000	Sol	Spec, Ident	Francois	BSCF - (1959)	1606
$C_{10}H_{18}O_2$	dl-Pinolic acid	1600-4000	Sol	Spec, Ident	Francois	BSCF - (1959)	1606
$C_{10}H_{18}O_2$	Sebacoin	2-15 μ	L L	Spec Band freq	Blomquist Blomquist	JACS 74 (1952) JACS 75 (1953)	3636 2153
$C_{10}H_{18}O_2$	3,3,6,6-Tetramethyl-2-hydroxycyclohexanone	-	L,S	Band freq	Leonard	JACS 72 (1950)	5388
$C_{10}H_{18}O_2S$	2-Ethyl-2-hydroxycyclohexane-1-spiro-2'-1',3'-oxathiolan	-	S	Band freq	Jaeger	JCS - (1955)	160
$C_{10}H_{18}O_2S_2$	Dibutyl dithiooxalate	2.5-16 μ	Sol	Struct	Nyquist	SA 15 (1959)	514
$C_{10}H_{18}O_4$	1,4-Butanediol diallyl ether dioxide	2.5-14 μ	L,Sol	Spec, Group freq	Patterson	AC 26 (1954)	823

$C_{10}H_{18}O_4$	Di-n-butyl oxalate	720-750	Sol L	Freq Band freq	Hampton Wiberley	AC AC	21 22	(1949) (1950)	914 841
$C_{10}H_{18}O_4$	Diethyl adipate	- 2-15 μ 800-1800 670-3500	Sol L L L,S	Band freq Spec Spec, Ident Spec	Hampton Kendall Stafford Corish	AC AFS AC JCS	21 7 26 -	(1949) (1953) (1954) (1958)	914 179 656 927
$C_{10}H_{18}O_4$	Diethyl n-propyl- malonate	2-15 μ	L	Spec, Freq	Abramovitch	CJC	36	(1958)	151
$C_{10}H_{18}O_4$	Dimethyl suberate	670-3500	L,S	Spec	Corish	JCS	-	(1958)	927
$C_{10}H_{18}O_4$	Sebacic acid	- 670-2000 5-15 μ	- S,L S,L	Ident Spec, Freq Struct, Spec	Brown Corish Davies	JACS JCS TFS	77 - 56	(1955) (1955) (1960)	1760 2431 185
$C_{10}H_{18}O_6$	2,3,5,6-Tetra- methyl-D-mannono- lactone	1700-1800	S	Freq, Ident	Banker	CIL	-	(1958)	658
$C_{10}H_{18}O_6$	Triethylene glycol diacetate	1300-1800	-	Spec	Barnes	IEC	15	(1943)	659
$C_{10}H_{18}O_7S$	Methyl 2-O-mesyl- 3,5-O-isopropyl- idene- α -D- xylofuranoside	-	-	Group freq	Baker	JACS	77	(1955)	7
$C_{10}H_{18}O_7S$	Methyl 2-O-mesyl- 3,5-O-isopropyl- idene- β ,D- xylofuranoside	-	-	Group freq	Baker	JACS	77	(1955)	7
$C_{10}H_{18}O_8$	Diethyl muocate	2-16 μ	S	Spec, Group freq, H bond	Tipson	JOC	18	(1953)	952
$C_{10}H_{18}O_8$	2-Methoxyethyl tartarate	2-15 μ	L	Spec	Kendall	APS	7	(1953)	179

$C_{10}H_{18}S$	6-Ethyl-2,2,6-trimethylthiocyclohex-3-ene	-	-	Ident	Glazebrook	JOS - (1954)	2094
$C_{10}H_{19}Cl$	1-(2-Chloroethyl)-1-ethylcyclohexane	7-14 μ	-	Freq	Schmerling	JACS 71 (1949)	698
$C_{10}H_{19}ClNO$	N,N-Dibutyl-2-chloro-2-fluoroethanamide	2-15 μ	L,Sol	Group freq, Assign	Letaw	JGP 21 (1953)	1621
$C_{10}H_{19}Cl_2NO$	N,N-Dibutyl-2,2-dichloroethanamide	2-15 μ	L,Sol	Spec, Freq, Group study	Letaw	JGP 21 (1953)	1621
$C_{10}H_{19}F_2NO$	N,N-Dibutyl-2,2-difluoroethanamide	2-15 μ	L,Sol	Spec, Freq, Group study	Letaw	JGP 21 (1953)	1621
$C_{10}H_{19}N$	N,n-Butylcyclohexenimine	2-15 μ	L	Spec, Band freq	Paris	JACS 74 (1952)	3007
$C_{10}H_{19}N$	1-n-Butyl-2-methyl- Δ^2 -tetrahydropyridine	-	L	Group freq	Leonard	JACS 76 (1954)	2781
$C_{10}H_{19}N.HClO_4$	1-n-Butyl-2-methyl- Δ^2 -tetrahydropyridine perchlorate	-	S	Group freq	Leonard	JACS 76 (1954)	2781
$C_{10}H_{19}N.HCl$	Geranylamine hydrochloride	700-1700	S	Spec, Struct, Group freq	Barnard	JOS - (1950)	915
$C_{10}H_{19}N$	Δ^1 -2-Isopropyl-5-methylazacycloheptene	-	-	Band freq	Boyer	JACS 77 (1955)	3287
$C_{10}H_{19}N$	3-Isopropyl-2,5,5-trimethylpyrrolidine	-	Sol	Substitution effect	Meyers	JOC 24 (1959)	1233
$C_{10}H_{19}N$	N-Methallylidene-1,3-dimethylbutylamine	-	-	Group freq	Smith	JACS 75 (1953)	3316

$C_{10}H_{19}N$	850-2930	Freq, Struct, I	Leonard	JACS	74 (1952)	1700
6-Methyl-1-azabicyclo [5.3.0]decane	-	-	Leonard	JACS	74 (1952)	1700
d-N-Methyl-trans-deca- hydroisoquinoline hydrochloride	2-12 μ	Sol	Witkop	JACS	71 (1949)	2559
dl-N-Methyl-cis-deca- hydroisoquinoline hydrochloride	2-12 μ	Sol	Witkop	JACS	71 (1949)	2559
dl-N-Methyl-trans- decahydroisoquinoline hydrochloride	2-12 μ	Sol	Witkop	JACS	71 (1949)	2559
3-Methyl-1-piperidine- 1-butane	-	-	Critez	A	623 (1959)	112
4-Methylquinolizidine	650-3500	-	Leonard	JACS	73 (1951)	5210
1-n-Propylpyrrol- zidine	380-2940	-	Leonard	JACS	74 (1952)	1700
6-Aminoocyclodecanone	-	-	Cope	JACS	77 (1955)	3590
3,3-Dimethyl-1-n- pyrrolidyl-2-butanone	-	S, L	Leonard	JACS	77 (1955)	3272
Lupinine	-	Sol	Marion Thyagarajan	JACS CR	73 (1951) 54 (1954)	305 1019
2-(1-Methylcyclo- hexyl)propionamide	-	-	Westfahl	JACS	77 (1955)	936
Spirocyclohexane-1,2'- (3'-ethyl)oxazolidine	2-15 μ	-	Daasch	JACS	13 (1951)	4523
1-Ethyl-1-azocyclo- nonan-5-ol-6-one	-	S, Sol	Leonard	JACS	76 (1954)	630
	-	Sol	Leonard	JACS	76 (1954)	3463
	-	Sol	Leonard	JACS	76 (1954)	5708

$C_{10}H_{19}NO_2$	2-Propyl- β -acetyl-4-ethylloxazolidine	-	L	Group freq	Nace	JACS 75 (1953)	3646					
$C_{10}H_{19}NO_2^S$	β -t-Butylsulfonyl- α -isopropylpropionitrile	-	-	Spec	Ross	JACS 73 (1951)	540					
$C_{10}H_{19}NO_3$	Acetyl-leucine ethyl ester	2.7-3.6 μ	L, Sol	Spec, Group freq	Mizushima	JACS 75 (1953)	1863					
$C_{10}H_{19}NO_6$	Methyl 2-acetamido-2-deoxy- β -O-methyl- α -D-glucopyranoside	-	S	Group freq, I	Barker	JCS - (1954)	171					
$C_{10}H_{19}NS$	β -t-Butylmercapto- α -isopropylpropionitrile	-	-	Spec	Ross	JACS 73 (1951)	540					
$C_{10}H_{19}N_3$	4-n-Octyl- v -triazole	2-16 μ	-	Spec, Group freq	Hartzel	JACS 76 (1954)	667					
$C_{10}H_{19}N_3O$	2-Methyl-5-isopropylcyclopentanone semicarbazone	2-15 μ	S	Spec, Ident	Meinwald	JACS 76 (1954)	4571					
$C_{10}H_{19}N_3O$	3,3,5-Trimethylcyclohexanone semicarbazone	700-3500	S	Ident, Assign	Davison	JCS - (1955)	3389					
$C_{10}H_{19}N_3O_4$	Glycylglycyl-D-leucine	650-2000	S	Spec, Struct	Blout	JACS 74 (1952)	1946					
$C_{10}H_{19}N_3O_4$	Glycyl-D-leucylglycine	650-2000	S	Spec, Struct	Blout	JACS 74 (1952)	1946					
$C_{10}H_{19}N_3O_4$	D-Leucylglycylglycine	650-2000	S	Spec, Struct	Blout	JACS 74 (1952)	1946					
$C_{10}H_{19}O_2$	Methyl 3,3,5-trimethyl-5-hexenoate	3-14 μ	-	Band freq, I	Finch	JACS 73 (1951)	4299					

C ₁₀ H ₂₀	n-Butylcyclohexane	3.2-3.6 μ	Sol	Spec, Assign Group study	Plyler Hastings	JRNB AC	43 (1949) 24 (1952)	3248 612
C ₁₀ H ₂₀	sec-Butylcyclohexane	15.5-24 μ 3.2-3.6 μ	L Sol	Spec Spec, Assign Group study	Plyler Plyler Hastings	JOSA JRNB AC	37 (1947) 43 (1949) 24 (1952)	746 37 612
C ₁₀ H ₂₀	t-Butylcyclohexane	3.2-3.6 μ	Sol	Spec, Assign Group study	Plyler Hastings	JRNB AC	43 (1949) 24 (1952)	37 612
C ₁₀ H ₂₀	Cyclododecane	2-15 μ	L	Spec	Blomquist	JACS	74 (1952)	3636
				Band freq	Cope	JACS	77 (1955)	3594
		650-1600	S,L	Spec	Billetter	HCA	41 (1958)	338
		450-1500	L,S	Spec	Billetter	HCA	41 (1958)	686
C ₁₀ H ₂₀	1-Decene			Analysis	Hampton	AC	21 (1949)	923
				Optical density	Treumann	AC	21 (1949)	1161
			Sol	Effect of slit width	Philpotts	AC	23 (1951)	268
			Sol	Analysis	Simard	AC	23 (1951)	1384
			L	Freq	Pines	JACS	77 (1955)	347
		0.9-3 μ	Sol	Spec	Holman	AC	28 (1956)	1533
			S	Band assign	Harrah	JCP	33 (1960)	298
C ₁₀ H ₂₀	cis-5-Decene			Ident	Benkeser	JACS	77 (1955)	3378
C ₁₀ H ₂₀	trans-5-Decene			Ident	Benkeser	JACS	77 (1955)	3378
C ₁₀ H ₂₀	1,2-Diethylcyclohexane	3-4 μ	L,Sol	Stretch freq	Tallent	AC	28 (1956)	953
C ₁₀ H ₂₀	Diisobutylene	3-14 μ	L	Spec	Lecomte	TFS	25 (1929)	864
				Group freq	Barnes	IEC	15 (1943)	659
C ₁₀ H ₂₀	1,2-Dimethylcyclooctane	2-16 μ		Spec	Cope	JACS	74 (1952)	179
C ₁₀ H ₂₀	dL-2,2-Dimethyl-1,3-diethylcyclobutane			Freq, I	Schmidt	JACS	76 (1954)	5426

$C_{10}H_{20}$	1-cis-2-Dimethyl-cis-3-isopropylcyclopentane	6.80-13 μ	-	Table	Pines	JACS 76 (1954)	4412
$C_{10}H_{20}$	1-trans-2-Dimethyl-cis-3-isopropylcyclopentane	6.86-13 μ	-	Band freq, Table Ident	Ipatieff Pines	JACS 75 (1953) JACS 76 (1954)	6222 4412
$C_{10}H_{20}$	1,1-Dimethyl-2-isopropylcyclopentane	700-4000	-	Spec	Stevens	JACS 71 (1949)	1687
$C_{10}H_{20}$	2,6-Dimethyloctene-1	-	-	Group freq, I	Sutherland	JACS 75 (1953)	5944
$C_{10}H_{20}$	2,6-Dimethyloctene-2	-	-	Group freq, I	Sutherland	JACS 75 (1953)	5944
$C_{10}H_{20}$	Ethylcyclooctane	2-16 μ	L	Spec, Ident	Cope	JACS 73 (1951)	1195
		3-14 μ	-	Spec, Ident	Craig	JACS 73 (1951)	1191
		-	-	Spec, Ident	Cope	JACS 74 (1952)	175
$C_{10}H_{20}$	Isobutylcyclohexane	-	-	Group study	Hastings	AC 24 (1952)	612
$C_{10}H_{20}$	p-Menthane	800-1950	-	Analysis, Spec	Barnes	IEC 15 (1943)	659
$C_{10}H_{20}$	cis-p-Menthane	-	-	Analysis	Webb	JACS 75 (1953)	4279
		2-12.5 μ	Sol	Spec, Group freq	O'Connor	AC 26 (1954)	1726
$C_{10}H_{20}$	trans-p-Menthane	650-3500	-	Spec, Struct	Alexander	JACS 71 (1949)	1786
		-	-	Analysis	Webb	JACS 75 (1953)	4279
		2-12.5 μ	Sol	Spec, Group freq	O'Connor	AC 26 (1954)	1726
$C_{10}H_{20}$	1-Methyl-1-isopropylcyclohexane	2-16 μ	L	Table, I	Pines	JACS 77 (1955)	2819
$C_{10}H_{20}$	1-Methyl-1-n-propylcyclohexane	2-16 μ	L	Table, I	Pines	JACS 77 (1955)	2819
$C_{10}H_{20}$	1,2,4,5-Tetramethylcyclohexane	-	-	Group study	Hastings	AC 24 (1952)	612

$C_{10}H_{20}$	2,4,4,5-Tetramethyl-1-hexene	-	-	Group study	Anderson	AC	20 (1948)	998
$C_{10}H_{20}$	2,6,6-Trimethyl-1-heptene	-	-	Group study	Anderson	AC	20 (1948)	998
$C_{10}H_{20}Br_2$	1,10-Dibromodecane	450-1500	L,S	Spec, Assign	Brown	PRS	231 (1955)	555
$C_{10}H_{20}ClNO$	N,N-Dibutyl-2-chloroethanamide	2-15 μ	L,Sol	Freq, Assign	Letaw	JCP	21 (1953)	1621
$C_{10}H_{20}Cl_2$	1,10-Dichlorodecane	450-1500	L,S	Spec, Assign	Brown	PRS	231 (1955)	555
$C_{10}H_{20}N_2O_2$	N,N'-Diacetylhexamethylene diamine	3-14 μ	S	Freq, Assign	Sandeman	PRS	232 (1955)	105
$C_{10}H_{20}N_2O_4$	1,1-Dinitrodecane	-	-	Spec	Novikov	IANs	- (1959)	1855
$C_{10}H_{20}O$	cis-4-t-Butylcyclohexanol	9-11 μ	Sol	Group study	Pickering	JACS	80 (1958)	4931
$C_{10}H_{20}O$	trans-4-t-Butylcyclohexanol	9-11 μ	Sol	Group study	Pickering	JACS	80 (1958)	4931
$C_{10}H_{20}O$	Citronellol, (α and β)	700-1800 700-1800 700-1750 800-1800	L L L -	Group study, Spec Spec, Group study Spec Spec	Thompson Barnard Carroll Weiner	JCS JCS JCS JACS	- (1948) - (1950) - (1950) 74 (1952)	1412 915 3457 2688
$C_{10}H_{20}O$	Cyclodecanol	2-15 μ	L	Spec	Blomquist	JACS	74 (1952)	3636
$C_{10}H_{20}O$	erythro-3-Cyclohexyl-2-butanol	-	Sol	Analysis	Gram	JACS	75 (1953)	6005
$C_{10}H_{20}O$	β -Cyclooctylethyl alcohol	2-16 μ	L	Spec, Ident	Cope	JACS	75 (1953)	3215

$C_{10}H_{20}O$	5-Decanone	1600-1800	Sol	Group study	Fuson	JACS	76 (1954)	2526
$C_{10}H_{20}O$	1,2-Epoxydecane	2-15 μ	L	Spec, Struct	Shreve	AC	23 (1951)	277
$C_{10}H_{20}O$	p-Menthan-4-ol	3600-3650	Sol	Freq	Cole	JCS	- (1959)	1218
$C_{10}H_{20}O$	trans-p-Menthan-4-ol	1300-3650	Sol	Freq	Cole	JCS	- (1959)	1222
$C_{10}H_{20}O$	Isomenthol	1300-3650	Sol	Freq	Cole	JCS	- (1959)	1222
$C_{10}H_{20}O$	Neomenthol	1300-3650	Sol	Freq	Cole	JCS	- (1959)	1222
$C_{10}H_{20}O$	Neoisomenthol	1300-3650	Sol	Freq	Cole	JCS	- (1959)	1222
$C_{10}H_{20}O$	Menthol	665-5000 1300-3650	L Sol	Group freq Freq	Zeiss Cole	JACS JCS	75 (1953) - (1959)	897 1222
$C_{10}H_{20}O$	2-Methyl-5-isopropyl-1-hydroxymethyl-cyclopentane	-	-	Group freq	Meinwald	JACS	76 (1954)	4571
$C_{10}H_{20}O$	2-n-Propylcycloheptanol	-	-	Band freq	Brande	JCS	- (1953)	2202
$C_{10}H_{20}O$	Vinyl 2-ethylhexyl ether	600-4000	Sol G,Sol, S	Group freq Spec, Freq	Davison Mikawa	JCS BCSJ	- (1953) 29 (1956)	2607 110
$C_{10}H_{20}OS$	2-Ethyl-2,3,4,5-tetrahydro-5-(1-mercapto-1-methylethyl)-2-methylfuran	-	-	Spec	Glazebrook	JCS	- (1954)	2094
$C_{10}H_{20}OS$	Hexylthio butyrate	2.5-16 μ	Sol	Freq, Struct	Nyquist	SA	15 (1959)	514
$C_{10}H_{20}O_2$	2-n-Butylhexanoic acid	6.5-8.5 μ	L	Ident	Guertin	AC	28 (1956)	1194

	6.5-8.5 μ L	Ident	Guertin	AC	28 (1956)	1194
$C_{10}H_{20}O_2$		2-sec-Butylhexanoic acid				
$C_{10}H_{20}O_2$	-	cis-Cyclodecane-1,2-diol	Kuhn	JACS	76 (1954)	4323
$C_{10}H_{20}O_2$	-	trans-Cyclodecane-1,2-diol	Kuhn	JACS	76 (1954)	4323
$C_{10}H_{20}O_2$	-	Cycloheptanecarboxaldehyde dimethyl acetal	Cope	JACS	76 (1954)	1100
$C_{10}H_{20}O_2$	670-3500 5.5-6.5 μ	Decanoic acid	Corish Sawicki	JCS AC	- 31 (1959)	1746 523
$C_{10}H_{20}O_2$	1-12 μ	Ethyl caprylate	O'Connor	JAOC	28 (1951)	154
$C_{10}H_{20}O_2$	700-1750	Hydroxycitronellal (predominately citronellal hydrate)	Carroll	JCS	- (1950)	3457
$C_{10}H_{20}O_2$	6.81-14 μ	Methyl pelargonate	Fowler	JOSA	43 (1953)	1054
$C_{10}H_{20}O_2$	2800-3600 - -	Pivaloin	Buswell Leonard Bartlett	JACS JACS JACS	61 (1939) 72 (1950) 77 (1955)	3252 5388 2801
$C_{10}H_{20}O_2$	3.5-8.5 μ	3-n-Propylheptanoic acid	Guertin	AC	28 (1956)	1194
$C_{10}H_{20}O_3$	750-1300	2-n-Amyl-2-methyl-4-hydroxymethyl-1,3-dioxolane	Boekelheide	JACS	71 (1949)	3303
$C_{10}H_{20}O_3$	750-1300	2-n-Hexyl-4-hydroxymethyl-1,3-dioxolane	Boekelheide	JACS	71 (1949)	3303

$C_{10}H_{20}O_3$	α -Hydroxycyclohexanone diethyl ketal	-	-	Ident	Stevens	JACS 76 (1954)	715
$C_{10}H_{20}O_5$	Methyl 6-deoxy-2,3,4-tri-O-methyl- α ,D-galactopyranoside	-	S	Band freq, I	Barker	JCS - (1954)	3468
$C_{10}H_{20}O_5$	Methyl 6-deoxy-2,3,4-tri-O-methyl- β ,D-galactopyranoside	-	S	Band freq, I	Barker	JCS - (1954)	3468
$C_{10}H_{20}O_5$	Tetramethylolcyclohexanol	700-1500	S	Ident, Spec	Shay	AC 26 (1954)	652
$C_{10}H_{20}O_6$	Methyl 3,4,6-tri-O-methyl-D-fructofuranoside	700-1000	L	Group freq, I	Barker	JCS - (1954)	4550
$C_{10}H_{20}O_6$	Methyl 2,3,4-tri-O-methyl- α ,D-galactopyranoside	-	S	Band freq, I	Barker	JCS - (1954)	3468
$C_{10}H_{20}O_6$	Methyl 2,3,4-tri-O-methyl- β ,D-glucopyranoside	-	S	Band freq, I	Barker	JCS - (1954)	171
$C_{10}H_{20}O_6$	2,3,4,6-Tetramethyl-D-galactose	8-15 μ	S	Spec	Kuhn	AC 22 (1950)	276
$C_{10}H_{20}O_6$	2,3,4,6-Tetramethyl-D-glucose	8-15 μ	S	Spec	Kuhn	AC 22 (1950)	276
			Sol	Ident	Mc Gilurary	JCS - (1953)	2577
			S	Group freq, I	Barker	JCS - (1954)	171
			-	Ident	Barker	JCS - (1955)	2096
$C_{10}H_{20}O_6$	2,3,4,6-Tetramethyl-D-mannose	8-15 μ	S	Spec	Kuhn	AC 22 (1950)	276

$C_{10}H_{20}S$			Band freq, Ident	Glazebrook	JCS	(1954)	2094
2-Ethyl-2-methyl-5-isopropylthiacyclopentane	-	-			JCS	-	(1954) 2094
$C_{10}H_{20}S$	700-2650	L	Spec	Sheppard	JCS	-	(1947) 1540
2-Ethyl-2,6,6-trimethylthiacyclohexane	500-1500	L	Spec	Sheppard	TFS	46	(1950) 429
	-	-	Ident	Glazebrook	JCS	-	(1954) 2094
$C_{10}H_{20}S_2$	-	-	Ident, Band freq	Glazebrook	JCS	-	(1954) 2094
2-Ethyl-5-(1-mercapto-1-methylethyl)-2-methylthiacyclopentane							
$C_{10}H_{21}DO$	650-4000	L, G, L	Band freq Band freq, Spec, I	Quinan Quinan	JCP AC	21 26	(1953) 1896 (1954) 1762
$C_{10}H_{21}Br$	500-1500	L, S L	Spec, Iso Thermo	Brown Yoshino	TFS CJC	50 35	(1954) 535 (1957) 339
$C_{10}H_{21}ClO_2S$	-	-	Spec, Assign	Geissler	ZE	63	(1959) 1140
$C_{10}H_{21}Cl_3OSi$	-	-	Induction effect	Josien	CPR	249	(1959) 826
$C_{10}H_{21}Cl_3OSi$	-	-	Inductive effect	Josien	CPR	249	(1959) 826
$C_{10}H_{21}Cl_3OSi$	-	-	Inductive effect	Josien	CPR	249	(1959) 826
$C_{10}H_{21}Cl_3Si$	2-16 μ	Sol	Freq, Spec, Struct	Smith	SA	16	(1960) 87
$C_{10}H_{21}N$	630-4000	L	Spec, Band freq	Leonard	JOC	18	(1953) 598
$C_{10}H_{21}N$	630-4000	L	Spec, Band freq	Leonard	JOC	18	(1953) 598

$C_{10}H_{21}N$	t-Nonylamine	2-15 μ	L, Sol	Freq, Assign, NCA	Stewart	JCP 30 (1959)	1259
$C_{10}H_{21}NO$	cis-2-Aminocyclo-decanol	-	Sol	Freq, Assign	Sicher	CCCC 24 (1959)	950
$C_{10}H_{21}NO$	trans-2-Aminocyclo-decanol	-	Sol	Freq, Assign	Sicher	CCCC 24 (1959)	950
$C_{10}H_{21}NO$	N,N-Diisobutyl-acetamide	-	L	Group freq	Robson	JACS 77 (1955)	498
$C_{10}H_{21}NO$	N,N-Di-n-butyl-acetamide	2-15 μ	L, Sol	Group freq, Assign	Letau	JCP 21 (1953)	1621
		-	L	Group freq	Robson	JACS 77 (1955)	498
		-	Sol	Group freq, I	Thompson	SA 13 (1958)	236
$C_{10}H_{21}NO$	1-Methyl-5-hydroxy-azacyclodecane	-	-	Band freq	Leonard	JACS 74 (1952)	4620
$C_{10}H_{21}NO_3$	n-Decyl nitrate	2-15 μ	Sol	Spec, Struct	Carrington	SA 16 (1960)	1279
$C_{10}H_{21}N_2O$	Diisobutyl ketone semicarbazone	700-3500	S	Ident, Assign	Davison	JCS - (1955)	3389
$C_{10}H_{21}O_2SB$	n-Octyl ethylenethio-borate	6-14 μ	L, S	Assign, Struct	Blau	JCS - (1960)	380
$C_{10}H_{21}O_2B$	Acetyl di-n-butyl-boronite	1500-1800	L, Sol	Group freq, Assign	Duncanson	JCS - (1958)	3652
$C_{10}H_{22}$	n-Decane	2-2.8 μ	L	Spec	Ellis	PR 27 (1926)	298
		0.75-0.92 μ	L	Struct	Barnes	JACS 50 (1928)	1033
		1.1-1.8 μ	L	Spec	Bruun	JRNB 8 (1932)	583
		1.1-1.8 μ	Sol	Spec	Liddel	JRNB 11 (1933)	599
		1100-1800	-	Spec	Barnes	IEC 15 (1943)	659
		-	-	Freq	Kellner	TFS 41 (1945)	217
		6.5-14 μ	L	Spec	Thompson	PRS 184 (1945)	3
		-	Sol	Group study	Hibbard	AC 21 (1949)	486
		-	-	Spec, Freq	Mizushima	JACS 71 (1949)	1320
		-	-	Spec	Simanouti	JCP 17 (1949)	1102

C ₁₀ H ₂₂	2,2-Dimethyloctane	-	-	2-15/ μ	L	Spec	Shreve	AC	23	(1951)	277
		-	-	-	-	Group study	Hastings	AC	24	(1952)	612
		5600-8800	L	5600-8800	L	Spec, Group study	Lever	APS	6	(1952)	29
		350-700	L	350-700	L	Table, Freq	Donneaud	CPR	239	(1954)	1480
		-	S	-	S	Freq	Stein	JCP	22	(1954)	1993
		-	-	-	-	Vib anal	Rosenbaum	JCP	9	(1941)	295
		650-1450	S	650-1450	S	Freq, Assign	Tschamler	JCP	22	(1954)	1845
		-	-	-	-	Freq	Corish	JCS	-	(1955)	2431
		700-3000	Sol	700-3000	Sol	Ext coefficient	Jones	SA	9	(1957)	235
		15-35/ μ	S	15-35/ μ	S	Spec, Struct	Bentley	SA	15	(1959)	165
C ₁₀ H ₂₂	2,2-Dimethyloctane	-	-	-	-	Freq	Sutherland	JCP	15	(1947)	153
		-	-	-	-	Freq	Simpson	PRS	199	(1949)	169
C ₁₀ H ₂₂	2,6-Dimethyloctane	2-16/ μ	L	2-16/ μ	L	Spec	Komarewsky	JACS	72	(1950)	1562
		6.79-13.60/ μ	-	6.79-13.60/ μ	-	Table	Pines	JACS	76	(1954)	4412
C ₁₀ H ₂₂	2,7-Dimethyloctane	350-700	L	350-700	L	Table, Freq	Donnaud	CPR	239	(1954)	1480
C ₁₀ H ₂₂	2-Methylnonane	5400-8900	Sol	5400-8900	Sol	Assign, Spec	Rose	JRNB	19	(1937)	143
		1050-1550	-	1050-1550	-	Spec	Barnes	IEC	15	(1943)	659
		-	-	-	-	Freq	Simpson	PRS	199	(1949)	169
C ₁₀ H ₂₂	3-Methylnonane	5400-8900	Sol	5400-8900	Sol	Assign, Spec	Rose	JRNB	19	(1937)	143
C ₁₀ H ₂₂	4-Methylnonane	5400-8900	Sol	5400-8900	Sol	Assign, Spec	Rose	JRNB	19	(1937)	143
C ₁₀ H ₂₂	5-Methylnonane	5400-8900	Sol	5400-8900	Sol	Assign, Spec	Rose	JRNB	19	(1937)	143
C ₁₀ H ₂₂	2,2,3,3,4-Pentamethylpentane	-	-	-	-	Freq	Bartlett	JACS	77	(1955)	2806
C ₁₀ H ₂₂	2,2,3,3-Tetramethylhexane	-	-	-	-	Freq	Hartlett	JACS	77	(1955)	2806
C ₁₀ H ₂₂	2,2,3,4-Tetramethylhexane	5400-8900	Sol	5400-8900	Sol	Assign, Spec	Rose	JRNB	19	(1937)	143

$C_{10}H_{22}$	2,2,6-Trimethyl-heptane	1150-1800	-	Spec	Barnes	IEC	15 (1943)	659
$C_{10}H_{22}$	3,3,5-Trimethyl-heptane	5400-8900	Sol	Spec, Assign	Rose	JRNB	19 (1937)	143
$C_{10}H_{22}NO_2B$	Ethylene dibutylamino-boronate	2-14 μ	S	Struct, Group freq	Blau	JCS	- (1960)	380
$C_{10}H_{22}N_2$	1,2,4,5,5-Hexamethylpiperazine	2800-3000	L	Group study	Braunholtz	JCS	- (1958)	2780
$C_{10}H_{22}N_2$	Mentane diamine	2-15 μ	L,Sol	Freq, Assign, NCA	Stewart	JCP	30 (1959)	1259
$C_{10}H_{22}N_2O$	Dl-n-aminonitrosamine	5.95-9.22 μ	L	Group freq, I	Haszeldine	JCS	- (1954)	691
$C_{10}H_{22}N_2O$	cis-Nitroso-sec-pentane dimer	-	L,Sol	Freq, Assign	Haszeldine	JCS	- (1954)	4172
$C_{10}H_{22}N_2O_2$	cis-Nitroso-sec-pentane dimer	1000-1450	S	Assign	Gowenlock	JCS	- (1957)	3927
$C_{10}H_{22}N_2O_2$	trans-Nitroso-sec-pentane dimer	1000-1300	Sol,S	Assign	Gowenlock	JCS	- (1957)	3927
$C_{10}H_{22}O$	Decanol-1	-	L	Band freq	Quinan	JCP	21 (1953)	1896
		-	L	Group study	Mosher	AC	27 (1955)	517
		0.9-3 μ	Sol	Spec	Holman	AC	28 (1956)	1533
		2.75-3.38 μ	Sol	I	Hughes	JCP	24 (1956)	489
		350-4000	L,Sol	Band freq	Stuart	JCP	24 (1956)	559
		-	Sol	Spec	Black	AC	29 (1957)	169
		-	Sol	Bond dist, I	Moccia	PRS	243 (1958)	154
		3570-3700	Sol	Band freq, I	Flynn	AJC	12 (1959)	575
$C_{10}H_{22}O$	Decanol-2	665-5000	L	Group freq	Zeiss	JACS	75 (1953)	897
$C_{10}H_{22}O$	Decanol-3	665-5000	L	Group freq	Zeiss	JACS	75 (1953)	897
$C_{10}H_{22}O$	Decanol-4	665-5000	L	Group freq	Zeiss	JACS	75 (1953)	897

Chemical Formula	Chemical Name	Wavenumber Range	Phase	Group freq	Zeiss	JACS	Year
C ₁₀ H ₂₂ O	Decanol-5	665-5000	L	Group freq	Zeiss	JACS	75 (1953) 897
C ₁₀ H ₂₂ O	Di-(3-methylbutyl) ether	800-1500	-	Spec	Barnes	IEC	15 (1943) 659
C ₁₀ H ₂₂ O	Di-n-pentyl ether	850-1500	-	Spec	Barnes	IEC	15 (1943) 659
C ₁₀ H ₂₂ O	2,2,4-Trimethyl-3-ethyl-3-pentanol	1-15 μ	L	Spec, H bond	Smith	JRNB	46 (1951) 145
C ₁₀ H ₂₂ O ₂	n-Amyl peroxide	6.74-14 μ	-	Table, I	Weloh	JACS	77 (1955) 551
C ₁₀ H ₂₂ O ₂	Decamethylene glycol	2.6-3.2 μ	Sol	H bond	Wall	JACS	61 (1939) 2679
		1050-1800	S	Spec	Barnes	IEC	15 (1943) 659
		700-1500	S	Spec, Ident	Shay	AC	26 (1954) 652
C ₁₀ H ₂₂ O ₂	n-Decyl hydroperoxide	680-1780	Sol	Spec	Philpotts	AC	24 (1952) 638
		5.5-14.5 μ	L	Spec, Group freq	Mosher	AC	27 (1955) 517
C ₁₀ H ₂₂ O ₂	1,2-Dibutoxyethane	720-750	L	Band freq	Wiberley	AC	22 (1950) 841
C ₁₀ H ₂₂ O ₂	Di(t-amyl) peroxide	680-1720	Sol	Spec, Band freq	Philpotts	AC	24 (1952) 638
C ₁₀ H ₂₂ O ₂	1-Ethoxy-2,4,4-trimethylpentan-2-ol	-	-	Ident	Graham	JCS	- (1954) 2180
C ₁₀ H ₂₂ O ₂	Isoamyl peroxide	6.73-13 μ	-	Table I	Welch	JACS	77 (1955) 551
C ₁₀ H ₂₂ O ₃	2-Ethoxymethyl-2,4-dimethyl-1,5-pentandiol	700-1500	L	Spec, Ident	Shay	AC	26 (1954) 652
C ₁₀ H ₂₂ O ₄	5-Hydroxy-4-hydroxy-methylpentanal diethyl acetal	-	Sol	Group freq	Marvel	JACS	75 (1953) 4601
C ₁₀ H ₂₂ O ₄ S ₂	1-Rhamnose diethyl mercapta	8-15 μ	S	Spec	Kuhn	AC	22 (1950) 276

$C_{10}H_{22}O_5S_2$	D-Galactose diethyl mercaptal	8-15 μ S	Spec	Kuhn	AC	22 (1950)	276
$C_{10}H_{22}O_7$	Dipentaerythritol	700-1500 S	Spec, Ident	Shay	AC	26 (1954)	652
$C_{10}H_{22}S$	Di-n-amyl sulfide	2800-3000 Sol	Group freq, Spec	Pozefsky	AC	23 (1951)	1611
$C_{10}H_{22}S$	Isoamyl sulfide	0.6-2.8 μ L	Group study	Ellis	JACS	50 (1928)	2113
$C_{10}H_{22}S_2$	Isoamyl disulfide	0.6-2.8 μ L	Group study	Ellis	JACS	50 (1928)	2113
$C_{10}H_{22}S_2$	2,6-Dimercapto-2,6-dimethyloctane	-	Ident	Glazebrook	JCS	- (1954)	2094
$C_{10}H_{23}N$	Di-isoamylamine	1-12 μ L 0.6-2.4 μ L 2-15 μ L, Sol	Spec Group study Freq, Assign, NCA	Bell Ellis Stewart	JACS JACS JCP	49 (1927) 50 (1928) 30 (1959)	1837 685 1259
$C_{10}H_{23}N$	Di-n-amylamine	1050-1800 2-15 μ L, Sol 3.38-3.60 μ S	Spec Freq, Assign, NCA Group freq	Barnes Stewart Wright	IEC JCP JOC	15 (1943) 30 (1959) 24 (1959)	659 1259 1362
$C_{10}H_{23}N.HCl$	Diethylhexylamine hydrochloride	2-8 μ S	Spec	Nakanishi	BCSJ	30 (1957)	403
$C_{10}H_{23}NO$	2-Di-n-butylamino-ethanol	- Sol	Group freq, H bond	Flett	SA	10 (1958)	21
$C_{10}H_{23}N_3O$	N-(1,3,3-Tetra-methylbutyl)aminoacetamid-oxime	930-3500 S	Freq	Hollander	JOC	23 (1958)	1112
$C_{10}H_{23}O_3P$	Dineopentyl phosphonate	700-1400 Sol	Spec, Group freq Group freq Group freq	Bellamy Bellamy Bell	JCS JCS JACS	- (1952) - (1952) 76 (1954)	475 1701 5785

$C_{10}H_{23}O_3B$	700-1700	L	Spec, Freq	Werner	AJC	9 (1956)	137
Diethyl n-hexylborate							
$C_{10}H_{23}O_4P$	670-3500 600-4000	- S	Spec, Assign, Table Group study	Bellamy Braunholtz	JCS JCS	- -	(1953) (1959) 728 868
$C_{10}H_{23}O_4P$	670-3500 600-4000	- S	Spec, Assign, Table Group study	Bellamy Braunholtz	JCS JCS	- -	(1953) (1959) 728 868
$C_{10}H_{24}NO_2PS$	600-1080	Sol	Assign	McIvor	CJC	37	(1959) 869
$C_{10}H_{24}NO_2PS$	600-1080	Sol	Assign	McIvor	CJC	37	(1959) 869
$C_{10}H_{24}NO_2PS$	740-1500	Sol	Assign	McIvor	CJC	37	(1959) 869
$C_{10}H_{24}NO_2PS$	740-1500	Sol	Assign	McIvor	CJC	37	(1959) 869
$C_{10}H_{24}NO_2PS$	740-1500	Sol	Assign	McIvor	CJC	37	(1959) 869
$C_{10}H_{24}NO_2PS$	900-1060	Sol	Band freq, I, Group	Halmann	JCS	-	(1953) 626
$C_{10}H_{24}NO_3P$	900-1060	Sol	Band freq, Group freq, I	Halmann	JCS	-	(1953) 626
$C_{10}H_{24}NO_4P$	-	-	Spec	Maarsen	RTC	76	(1957) 724
$C_{10}H_{24}N_2$	3.38-3.60 μ S	S	Freq	Wright	JOC	24	(1959) 1362

$C_{10}H_{24}N_6$	N,N' -Dimethyl- N,N' -bis-(2-methylaminoethyl)oxamidine	3-6.5 μ	Sol	Spec, Group freq	Woodburn	JOC	17 (1952)	1235
$C_{10}H_{24}OSi$	Trimethylsilylhexyl methyl ether	-	-	Inductive effect	Josien	CPR	249 (1959)	826
$C_{10}H_{24}OSi$	Trimethylsilylpentyl ethyl ether	-	-	Inductive effect	Josien	CPR	249 (1959)	826
$C_{10}H_{24}OSi$	Trimethylsilylpropyl butyl ether	-	-	Inductive effect	Josien	CPR	249 (1959)	826
$C_{10}H_{24}O_2Si$	Dimethyldiisobutoxysilane	750-3000	L	Spec, Assign	Richards	JCS	- (1949)	124
$C_{10}H_{24}O_2Si$	Dimethyldi-n-butoxysilane	750-1300	L	Spec, Assign	Richards	JCS	- (1949)	124
$C_{10}H_{24}O_3Si$	Methyltriisopropoxysilane	700-3000	L	Spec, Assign	Richards	JCS	- (1949)	124
$C_{10}H_{24}O_3Si$	Methyltri-n-propoxysilane	700-3000	L	Spec, Assign	Richards	JCS	- (1949)	124
$C_{10}H_{24}Si$	Diethyldi-n-propylsilane	-	-	Band freq	George	JACS	77 (1955)	1677
$C_{10}H_{25}NOSi_2$	n-Butylaminocyclohexamethyldisiloxane	2-15 μ	-	Spec	George	JACS	77 (1955)	3493
$C_{10}H_{25}NSi$	N-(Trimethylsilylmethyl)-n-hexylamine	-	-	Group study	Noll	JACS	73 (1951)	3871

Chemical Formula	Chemical Name	600-1050 Sol	Assign	McIvor	CJC	37 (1959)	869
$C_{10}H_{25}N_2O_2PS_2$	O-Ethyl-S- β -diethyl-aminoethyl-dimethyl-phosphoramidothioate		Assign	McIvor	CJC	37 (1959)	869
$C_{10}H_{25}N_2O_2PS_2$	O-Ethyl-O- β -diethyl-aminoethyl-dimethyl-phosphoramidothioate	600-1050 Sol	Assign	McIvor	CJC	37 (1959)	869
$C_{10}H_{25}O_2S_3P$	O,O-Diethyl-S-2-ethylmercaptethyl-phosphorothiolate methosulfate	- - -	Group freq	Fukuto	JACS	77 (1955)	3670
$C_{10}H_{26}NO_3PS$	Triethylammonium diethylphosphorothioate	740-1500 Sol	Assign	McIvor	CJC	37 (1959)	869
$C_{10}H_{26}O_5Si_2$	Dimethyltetraethoxydisiloxane	600-3500 L	Spec	Okawara	BCSJ	31 (1958)	154
$C_{10}H_{26}Si_2$	1,4-Bis-(trimethylsilyl) butane	839-2920 Sol	Table, I	West	JOC	18 (1953)	1739
$C_{10}H_{27}NOSi_2$	Diethylaminomethylpentamethyldisiloxane	2-15 μ	Spec	George	JACS	77 (1955)	3493
$C_{10}H_{28}N_2OSi_2$	Di-(dimethylisopropylamino-silyl) oxide	- - -	Group study, Spec	Noll	JACS	73 (1951)	3871
$C_{10}H_{28}O_4Si_3$	Diethoxyhexamethyltrisiloxane	600-3500 L	Spec	Okawara	BCSJ	31 (1958)	154
$C_{10}H_{30}N_5O_5P_3$	Decamethyl triphosphoramidate	- - -	Ident	Tolkmath	JACS	75 (1953)	5270
$C_{10}H_{30}O_3Si_4$	Decamethyl-tetrasiloxane	2.5-14 μ 500-1700 L 2-15 μ	Spec Spec, Table Spec, Thermo	Wright Richards Thompson	JACS JCS JCS	69 (1947) - (1949) - (1953)	803 124 1908

$C_{10}H_{30}O_3Si_4$	3-Trimethylsiloxy-heptamethyltrisiloxane	400-1100 -	Spec	Kriegsmann	ZE	64 (1960)	541
$C_{10}H_{30}O_5Si_4$	Dimethoxyoctamethyl-tetrasiloxane	2.5-14 μ Sol	Spec	Wright	JACS	69 (1947)	803
$C_{10}H_{30}O_5Si_5$	Decamethylcyclopentasiloxane	700-3500 L	Spec, Struct	Tanaka	BCSJ	31 (1958)	762
$C_{10}H_{30}O_9Si_4$	Tetramethylhexamethoxy-tetrasiloxane	2.5-14 μ Sol	Spec	Wright	JACS	69 (1947)	803
$C_{10}H_{30}O_{10}$	Ethylene glycol (pentamer)	500-1700 L	Spec, Assign	Richards	JCS	- (1949)	124
$C_{10}H_{34}O_5Si_6$	Decamethylhexasiloxane	- Sol	Assign	Kriegsmann	ZAUA	298 (1958)	232
$C_{10}D_8$	Naphthalene- d_8	700-3500 L	Spec, Struct	Tanaka	BCSJ	31 (1958)	762
$C_{10}Cl_8O_2$	Ootachloro-3a,4,7,7a-tetrahydro-4,7-methanoindene-1,8-dione	600-3500 L	Spec, Freq	Sakiyama	BCSJ	31 (1958)	67
$C_{10}Cl_{10}$	Bis-(pentachloro-cyclopentadienyl)	6.28-12.5 μ Sol	Table, Band freq	McBee	JACS	77 (1955)	4375

$C_{10}Cl_{12}$	Perchloro-3a,4,7,7a-tetrahydro-4,7-methanoindene	6.23-9.86 μ Sol	Table, Band freq	McBee	JACS 77 (1955)	4375
$C_{10}F_{20}N_2$	Perfluorodipiperidyl	2-15 μ L	Spec	Halpern	APS 11 (1957)	173
$C_{10}F_{21}N$	Perfluorodiethylaminocyclohexane	2-15 μ Sol	Spec	Halpern	APS 11 (1957)	173
<u>C_{11} COMPOUNDS</u>						
$C_{11}H_6Br_2O_2$	3,7-Dibromo-4,5-benzotropolone	750-1750 S	Spec, Freq	Tarbell	JACS 74 (1952)	1234
$C_{11}H_6F_{14}O_4$	1,3-Propanediol-bisheptafluorobutyrate	- L	Freq	Rappaport	JACS 75 (1953)	2695
$C_{11}H_6O_{10}$	Benzenepentacarboxylic acid	2-15 μ S	Spec, Freq assign	Gonzalez	SA 12 (1958)	17
$C_{11}H_7BrO_2$	2-Methyl-3-bromo-1,4-naphthoquinone	1600-1800 Sol	Freq	Josien	JCP 21 (1953)	331
$C_{11}H_7ClO$	β -Naphthylacyl chloride	650-1000 Sol,S	Substitution effect on freq	Wang	SA 15 (1959)	1118
$C_{11}H_7ClO_2$	1-Naphthyl chlorocarbonate	5.62-9.0 μ Sol	Table	Tsou	JACS 76 (1954)	6108
$C_{11}H_7N$	1-Naphthonitrile	1-12 μ L	Spec	Bell	JACS 57 (1935)	1023
		-	Freq	Kitson	AC 24 (1952)	334
		- Sol	Freq, I Ext coefficient	Skinner	JCS - (1955)	487
		650-1000 -	Substitution effect on freq	Wang	SA 15 (1959)	1118

$C_{11}H_7N$	2-Naphthonitrile	-	-	AC	24	(1952)	334
		-	Sol	JCS	-	(1955)	487
$C_{11}H_7NO$	3,4-Benzphenyl isocyanate	-	Sol	SA	13	(1958)	212
$C_{11}H_7NO$	α -Naphthyl isocyanate	-	Sol	JCS	-	(1953)	3712
		-	Sol	SA	13	(1958)	212
		650-1000	Sol, μ S	SA	15	(1959)	1118
$C_{11}H_7NO$	β -Naphthyl isocyanate	-	Sol	JCS	-	(1953)	3712
$C_{11}H_7NO_4$	2(or 3)-Nitro- β, γ -benzo-tropolone	700-1700	S	JACS	74	(1952)	4935
$C_{11}H_7NO_4$	3-Nitro-4,5-benzotropolone	700-1700	S	JACS	74	(1952)	1234
$C_{11}H_7NO_4$	1-Nitro-2-naphthoic acid	700-1700	S	JACS	74	(1952)	1234
$C_{11}H_7NO_5$	3,8-Dicarboxy-4-hydroxyquinoline	-	-	JACS	74	(1952)	2637
$C_{11}H_7NS$	α -Naphthyl isothiocyanate	2000-2300	Sol	SA	13	(1958)	212
		600-4000	S	SA	16	(1960)	279
$C_{11}H_7NS$	β -Naphthyl isothiocyanate	600-4000	S	SA	16	(1960)	279
$C_{11}H_8Br_2O_3$	p-Bromo- β -bromobenzylidenepyruvic acid enol-lactone methyl ether	2.5-13 μ	Sol	JACS	76	(1954)	503
$C_{11}H_8F_3NO_2$	7-Trifluoromethylindoxyl acetate	700-4000	S, μ Sol	JCS	-	(1958)	1217
$C_{11}H_8N_2$	Methylphenylfumarodinitrile	-	Sol	JCS	-	(1955)	2170

Formula	Compound Name	Sol	Struct, Freq, I	Felton	JCS	(Year)	Page
C ₁₁ H ₈ N ₂	Methylphenylmalei- dinitrile	-	Sol		JCS	-	(1955) 2170
C ₁₁ H ₈ N ₂	1-Phenylethylidene- malonodinitrile	-	Sol	Felton	JCS	-	(1955) 2170
C ₁₁ H ₈ N ₂ O ₂	p-Nitrophenylpyridine	700-1700	Sol	Katritzky	JCS	-	(1959) 2051
C ₁₁ H ₈ N ₂ O ₂	2-p-Nitrophenylpyridine	700-1700	Sol	Katritzky	JCS	-	(1959) 2051
C ₁₁ H ₈ N ₂ O ₂	3-p-Nitrophenylpyridine	600-3000 700-1700	Sol Sol	Katritzky Katritzky	JCS JCS	- -	(1948) 3165 (1959) 2051
C ₁₁ H ₈ N ₂ O ₂	4-m-Nitrophenylpyridine	700-1700	Sol	Katritzky	JCS	-	(1959) 2058
C ₁₁ H ₈ N ₂ O ₃	p-Nitrophenylpyridine -N-oxide	700-1700	Sol	Katritzky	JCS	-	(1959) 2051
C ₁₁ H ₈ N ₂ O ₃	2-p-Nitrophenylpyridine -N-oxide	700-1700	Sol	Katritzky	JCS	-	(1959) 2051
C ₁₁ H ₈ N ₂ O ₃	2-m-Nitrophenylpyridine -N-oxide	700-1700	Sol	Katritzky	JCS	-	(1959) 2058
C ₁₁ H ₈ N ₄ O ₅	2-Furaldehyde-2,4- dinitrophenylhydrazone (Red form)	2-15 μ	S	Jones	AC	28	(1956) 191
C ₁₁ H ₈ N ₄ O ₅	2-Furaldehyde-2,4- dinitrophenylhydrazone (Yellow form)	2-15 μ	S	Jones	AC	28	(1956) 191
C ₁₁ H ₈ N ₄ O ₇	Pyridinium picrate	1400-1700	S	Tsubomura	JCP	28	(1958) 355
C ₁₁ H ₈ O	4,5-Benzotropone	- 700-1750	S S	Scott Nicholls Pavson	JACS JACS CR	72 74 55	(1950) 240 (1952) 4935 (1955) 9

$C_{11}H_{10}O$	α -Naphthaldehyde	1600-3700 - 2730-2830 650-1000	Sol - Sol S,Sol	Spec, Freq Reference Freq, H bond CH out of plane bending	Hunsberger Pinchas Pinchas Wang	JACS AC AC SA	72 (1950) 27 (1955) 29 (1957) 15 (1959)	5626 2 334 1118
$C_{11}H_{10}O$	β -Naphthaldehyde	1600-3700 - 2.8-12 μ	Sol - Sol	Spec Reference Freq, H bond	Hunsberger Pinchas Pinchas	JACS AC AC	72 (1950) 27 (1955) 29 (1957)	5626 2 334
$C_{11}H_{10}O_2$	3,4-Benzotropolone	-	Sol	Freq	Bryant	JOC	19 (1954)	1889
$C_{11}H_{10}O_2$	4,5-Benzotropolone	1250-1800 - 1600-3700 -	Sol S S Sol	Table Freq Spec, Freq, H bond Freq	Tarbell Nicholls Tarbell Bryant	JACS JACS JACS JOC	72 (1950) 74 (1952) 74 (1952) 19 (1954)	379 4935 1234 1889
$C_{11}H_{10}O_2$	1-Hydroxy-2-naphthaldehyde	650-3800	S	Spec	Hunsberger	JACS	72 (1950)	5626
$C_{11}H_{10}O_2$	2-Hydroxy-1-naphthaldehyde	650-3800	S	Spec	Hunsberger	JACS	72 (1950)	5626
$C_{11}H_{10}O_2$	3-Hydroxy-2-naphthaldehyde	650-3800	S	Spec	Hunsberger	JACS	72 (1950)	5626
$C_{11}H_{10}O_2$	2-Methyl-1,4-naphthoquinone	1600-1800	Sol	Freq	Josien	JCP	21 (1953)	331
$C_{11}H_{10}O_2$	α -Naphthoic acid	700-4000 - 650-1000	S,Sol Sol Sol,S	Freq, Ext coefficient Freq Freq	Flett Goulden Wang	JCS SA SA	- (1951) 6 (1954) 15 (1959)	962 129 1118
$C_{11}H_{10}O_2$	β -Naphthoic acid	700-4000 2-12 μ - 650-1000	S,Sol Sol Sol S,Sol	Freq Spec Freq Freq	Flett Schrecker Goulden Wang	JCS JACS SA SA	- (1951) 74 (1952) 6 (1954) 15 (1959)	962 5669 129 1118
$C_{11}H_{10}O_3$	1,8-Dihydroxy-2-naphthaldehyde	-	Sol	Freq	Hoschstein	JACS	75 (1953)	5455

C ₁₁ H ₈ O ₃	3-Hydroxy-2-methyl-1,4-naphthoquinone	1600-1800	Sol	Freq	Josien	JCP	21 (1953)	331
C ₁₁ H ₈ O ₃	2-Hydroxy-1-naphthoic acid	5.5-6.5 μ	Sol	Ident	Sawicki	AC	31 (1959)	523
C ₁₁ H ₈ O ₃	3-Hydroxy-2-naphthoic acid	700-1400	S, L Sol	Freq Freq	Flett Bellamy	JCS JCS	- (1951) - (1954)	962 4487
C ₁₁ H ₈ O ₃	2-Methoxy-1,4-naphthoquinone	1600-1800	Sol	Freq	Josien	JCP	21 (1953)	331
C ₁₁ H ₈ O ₃	Plumbagin	-	-	Synthesis	Thompson	JCS	- (1951)	1237
C ₁₁ H ₈ O ₃	2-(2'-Tetroyl)benzoic acid	5.5-6.5 μ	Sol	Ident	Sawicki	AC	31 (1959)	523
C ₁₁ H ₈ O ₃ S ₂	5-Methoxy-2,2'-thenil	-	-	Freq	Sice	JACS	75 (1953)	3697
C ₁₁ H ₈ O ₄	1,8-Dihydroxy-2-naphthoic acid	-	Sol	Freq	Hochstein	JACS	75 (1953)	5455
C ₁₁ H ₈ O ₄	1,8-Dihydroxy-4-naphthoic acid	-	Sol	Freq	Hochstein	JACS	75 (1953)	5455
C ₁₁ H ₉ O ₅	Purpurogallin	700-3700	- Sol	Spec, Freq Freq	LeFevre Bryant	JCS JOC	- (1953) 19 (1954)	2496 1889
C ₁₁ H ₉ BrO ₃	3-Bromo-5,6-dihydro-4-hydroxy-6-phenyl-2-pyrone	-	-	Struct	Reid	JCS	- (1954)	525
C ₁₁ H ₉ ClO ₅	4-Chloro-7-methoxy-3-methyl-3-phthalidecarboxylic acid	-	-	Ident Ident	Hutchings Kushner	JACS JACS	74 (1952) 74 (1952)	3710 3710
C ₁₁ H ₉ F ₇ O ₃ S	1,1-Di-H-perfluoro-n-butyl p-toluene-sulfonate	-	L	Freq	Tiers	JACS	75 (1953)	5978

$C_{11}H_9N$	2-Phenylpyridine	-	L	Analysis	Dannley	JACS	76	(1954)	445
		-	L	Analysis	Dannley	JACS	76	(1954)	2997
		-	-	Ident	Entel	JACS	77	(1955)	611
		600-4000	Sol	Freq	Katritzky	JCS	-	(1958)	4155
$C_{11}H_9N$	3-Phenylpyridine	-	L	Analysis	Dannley	JACS	76	(1954)	445
		-	L	Analysis	Dannley	JACS	76	(1954)	2997
		-	-	Ident	Entel	JACS	77	(1955)	611
		600-3000	Sol	Assign	Katritzky	JCS	-	(1958)	3165
		600-4000	Sol	Freq	Katritzky	JCS	-	(1958)	4155
$C_{11}H_9N$	4-Phenylpyridine	-	L	Analysis	Dannley	JACS	76	(1954)	445
		-	L	Analysis	Dannley	JACS	76	(1954)	2997
		-	-	Ident	Entel	JACS	77	(1955)	611
		600-4000	Sol	Freq	Katritzky	JCS	-	(1958)	4155
$C_{11}H_9NO$	2-Benzoylpyrrole	-	S,Sol	H bond, Struct	Mirone	AC	48	(1958)	881
$C_{11}H_9NO$	2-Phenylpyridine-1-oxide	600-4000	Sol	Freq	Katritzky	JCS	-	(1958)	4155
$C_{11}H_9NO$	3-Phenylpyridine-1-oxide	600-4000	Sol	Freq	Katritzky	JCS	-	(1958)	4155
		800-3000	Sol	Spec, Freq, I	Katritzky	JCS	-	(1959)	3680
$C_{11}H_9NO$	4-Phenylpyridine-1-oxide	600-3000	Sol	Freq, I	Katritzky	JCS	-	(1958)	3680
		600-4000	Sol	Freq	Katritzky	JCS	-	(1958)	4155
$C_{11}H_9NOS$	Thiofuranilide	600-1700	S,Sol	Spec, Freq, Assign	Hadzi	JCS	-	(1957)	847
$C_{11}H_9NO_2$	5-Acetyl-8-hydroxyquinoline	3300-3400	Sol	Freq, I, H bond	Badger	JCS	-	(1958)	3437
$C_{11}H_9NO_2$	1-Acetylinidole-3-aldehyde	700-4000	S	Spec, Freq	Tanner	SA	9	(1957)	282
$C_{11}H_9NO_2$	α -Amino- β , γ -benzotropolone	700-1700	S	Spec, Freq	Nicholls	JACS	74	(1952)	4935
$C_{11}H_9NO_2$	2(or 3)-Amino- β , γ -benzotropolone	700-1700	SQ	Spec, Freq	Nicholls	JACS	74	(1952)	4935

$C_{11}H_9NO_2$	700-1700 S,L	Freq	Flett	JCS - (1951)	962
3-Amino-2-naphthoic acid				JCS	
$C_{11}H_9NO_2$	-	Freq	Adams	JACS 74 (1952)	5562
4-Amino-2-naphthoic acid				JCS	
2-Carbomethoxy-quinoline	1300-1700 Sol	Freq	Katritzky	- (1960)	2942
$C_{11}H_9NO_2$				JCS	
4-Carbomethoxy-quinoline	1300-1700 Sol	Freq	Katritzky	- (1960)	2942
$C_{11}H_9NO_2$				JCS	
6-Carbomethoxy-quinoline	1300-1700 Sol	Freq	Katritzky	- (1960)	2942
$C_{11}H_9NO_2$				JCS	
8-Carbomethoxy-quinoline	1300-1700 Sol	Freq	Katritzky	- (1960)	2942
$C_{11}H_9NO_2$				JCS	
1,2-Naphthoquinone-2-methoxyimine	600-1700 S,Sol	Freq, Assign struct, H bond	Hadzi	- (1956)	2725
$C_{11}H_9NO_2$				JCS	
1,2-Naphthoquinone-1-methoxyimine	600-1700 S,Sol	Freq, Assign, Struct, H bond	Hadzi	- (1956)	2725
$C_{11}H_9NO_2$				JCS	
3-Indolylcarboxymethyl dithioacetate	400-4000 S	Spec, Freq	Bak	ACS 12 (1958)	1451
$C_{11}H_9NO_2S_2$				JACS	
4-Acetoxyarbostryl	- Sol	Freq, Ident	Bomstein	76 (1954)	2760
$C_{11}H_9NO_3$				JCS	
N-Benzylloxymaleinimide	- S	Freq	Ames	- (1955)	631
$C_{11}H_9NO_3$				JCS	
3-Carboxy-4-hydroxy-1-phenylpyrrole	2-8 μ S	I	Davoll	- (1953)	3802
$C_{11}H_9NO_3$				JCS	
5-Methyl-N-acetylisatin	700-4000 -	Assign, Freq	Holt	- (1958)	1217
$C_{11}H_9NO_3$				JCS	
8-Carbomethoxy-2,3-dihydroxyquinoline	5-7 μ S	Spec	Grundon	74 (1952)	2637
$C_{11}H_9NO_4$				JACS	

$C_{11}H_9NO_4$	8-Carbomethoxy-2,4-dihydroxyquinoline	5-7 μ	S	Spec	Grundon	JACS 74 (1952)	2637
$C_{11}H_9NO_4$	5-Carboxymethyl-1-methylisatin	1500-3500	S	Freq, Assign, Struct	Sadler	JCS - (1959)	667
$C_{11}H_9NO_4$	5-Methoxy-N-acetylisatin	700-4000	Sol	Freq	Holt	JCS - (1958)	1217
$C_{11}H_9N_3$	1-Amino- β -carboline	700-3000	S	Spec, Struct	Snyder	JACS 71 (1949)	527
$C_{11}H_9N_3O_3$	α -m-Nitroanilino-pyridine-N-oxide	800-3000	Sol	I	Katritzky	JCS - (1958)	2195
$C_{11}H_9N_3O_5S$	2-Thio-3-O-nitrophenyl-5-carboxymethyl-hydantoin	600-4000	S	Spec, Ident	Epp	AC 29 (1957)	1283
$C_{11}H_{10}$	1-Methylazulene	-	-	Review	Gordon	CR 50 (1952)	127
$C_{11}H_{10}$	2-Methylazulene	-	-	Review	Gordon	CR 50 (1952)	127
$C_{11}H_{10}$	5-Methylazulene	-	-	Review	Gordon	CR 50 (1952)	127
$C_{11}H_{10}$	6-Methylazulene	-	-	Review	Gordon	CR 50 (1952)	127
$C_{11}H_{10}$	1-Methylnaphthalene	2.6-3.8 μ	Sol	Spec	Fox	JCS - (1939)	318
		680-2000	L	Spec	Cannon	SA 4 (1951)	373
		-	-	Analysis	Clark	JACS 74 (1952)	1030
		-	Sol	Freq	Tamres	JACS 74 (1952)	3375
		-	-	Analysis	Hochstein	JACS 75 (1953)	5455
		2700-3000	Sol	Spec	Badger	SA 15 (1959)	672
		15-35 μ	S	Spec, Struct	Bentley	SA 15 (1959)	165
		2700-3000	L, g	Freq, Assign	Fuson	BSCF - (1959)	93
		650-1000	S, Sol	Freq	Wang	SA 15 (1959)	1118
		1375-1530	Sol	Group study, Ext coefficient	Moritz	SA 16 (1960)	74

$C_{11}H_{10}$	2-Methylnaphthalene	2.6-3.8/ μ 660-2010	Sol Sol	Spec Spec Analysis Analysis Spec Spec, Struct Freq	Fox Cannon Clark Hochstein Badger Bentley Wang	JCS SA JACS SA SA SA	- 4 74 75 15 15 15	(1939) (1951) (1952) (1953) (1959) (1959) (1959)	318 373 1030 5455 672 165 1118
$C_{11}H_{10}ClNO$	α -p-Chlorophenyl- α - propionylacetonitrile	-	S	Spec, Struct Freq	Chase	JCS	-	(1953)	3518
$C_{11}H_{10}ClNO_3$	6-Carboethoxy-2-chloro-5- oxo-6,7-dihydro-1,5H- pyrindine	-	Sol	I, Freq	Ramirez	JACS	77	(1955)	1035
$C_{11}H_{10}Cl_2N_2O_6$	N-Dichloroacetyl- β -p- nitrophenylserine	-	-	Struct, Freq	Bergmann	JCS	-	(1951)	2673
$C_{11}H_{10}F_2O_2S_2$	Pentamethylenedithiol- bis-(pentafluoropro- pionate)	2-16/ μ	L	Spec, Freq	Hauptschein	JACS	74	(1952)	4005
$C_{11}H_{10}N_2$	Benzyl-(methyl)- malononitrile	-	-	Freq, I	Westfahl	JACS	75	(1955)	936
$C_{11}H_{10}N_2$	1,3-Dimethyl-2-cyano- indole	650-3900	S	Spec	Snyder	JACS	70	(1948)	1857
$C_{11}H_{10}N_2$	1-Methyl-3-indole- acetonitrile	650-3900	S	Spec	Snyder	JACS	70	(1948)	1857
$C_{11}H_{10}N_2$	m-2-Pyridylaniline	700-1700	Sol	I Freq assign, Struct	Katritzky Katritzky	JCS JCS	- -	(1959) (1959)	2058 3674
$C_{11}H_{10}N_2$	m-4-Pyridylaniline	700-1700	Sol	I Freq assign, Struct	Katritzky Katritzky	JCS JCS	- -	(1959) (1959)	2058 3674
$C_{11}H_{10}N_2$	N-4-Pyridylaniline	600-4000	Sol	Freq	Katritzky	JCS	-	(1958)	4155

$C_{11}H_{10}N_2$	p-2-Pyridylaniline	-	-	Freq assign, Struct	Katritzky	JCS -	(1959) 3674
		700-1700	Sol	Freq assign	Katritzky	JCS -	(1959) 2051
$C_{11}H_{10}N_2$	p-3-Pyridylaniline	-	-	Freq assign, Struct	Katritzky	JCS -	(1959) 3674
		700-1700	Sol	Freq assign	Katritzky	JCS -	(1959) 2051
$C_{11}H_{10}N_2$	p-4-Pyridylaniline	-	-	Freq assign, Struct	Katritzky	JCS -	(1959) 3674
$C_{11}H_{10}N_2O$	3-Acetamidoquinoline	1300-1700	Sol	Freq	Katritzky	JCS -	(1960) 2942
$C_{11}H_{10}N_2O$	4-Acetamidoquinoline	1300-1700	Sol	Freq	Katritzky	JCS -	(1960) 2942
$C_{11}H_{10}N_2O$	6-Acetamidoquinoline	1300-1700	Sol	Freq	Katritzky	JCS -	(1960) 2942
$C_{11}H_{10}N_2O$	α -Anilino-pyridine-N-oxide	800-3000	Sol	I	Katritzky	JCS -	(1958) 2195
$C_{11}H_{10}N_2O$	Furfural phenylhydrazone	800-1700	Sol	Freq, Assign	Katritzky	JCS -	(1959) 657
$C_{11}H_{10}N_2O$	m-2-Pyridine-N-oxide-aniline	700-1700	Sol	I	Katritzky	JCS -	(1959) 2058
		-	-	Freq assign, Struct	Katritzky	JCS -	(1959) 3674
$C_{11}H_{10}N_2O$	p-2-Pyridine-N-oxide-aniline	-	-	Freq assign, Struct	Katritzky	JCS -	(1959) 3674
$C_{11}H_{10}N_2O_2$	1-Methyl-4-nitromethyl-1,4-dihydroquinoline	650-3500	S	Spec, Band freq	Leonard	JACS 73	(1951) 3325
$C_{11}H_{10}N_2O_3$	Rutonal	2.5-16 μ	S	Spec Ident	Levi Cleverley	AC 28 ANA 85	(1956) 1591 (1960) 582
$C_{11}H_{10}N_2O_3S$	3-Phenyl-2-thio-5-hydantoin-acetic acid	2.5-15 μ	S,L	Spec, Ident	Ramchandran	AC 27	(1956) 1734
$C_{11}H_{10}N_2O_3S_2$	4-Methyl-3-p-nitrobenzoyl-2-thiothiazolidone	-	-	Freq	Clapp	JACS 75	(1953) 1490
$C_{11}H_{10}N_2O_3S_2$	5-Methyl-3-p-nitrobenzoyl-2-thiothiazolidone	-	-	Freq	Clapp	JACS 75	(1953) 1490

$C_{11}H_{10}N_2O_4$	α -Acetamido-p-nitro-acrylophenone	-	-	Freq, Struct	Petrov	JCS - (1953)	4066
$C_{11}H_{10}N_2O_4$	Dihydro-2-methyl-4-p-nitrobenzoxazole	-	-	Freq, Struct	Petrov	JCS - (1953)	4066
$C_{11}H_{10}N_2O_4S$	Iminoxathiolane p-nitrobenzoate	3.35-14.1 μ	-	Freq, I, Ident	Price	JACS 75 (1953)	2396
$C_{11}H_{10}N_4O$	4-Phenyl-5-diazoacetyl-pyrazoline	2-12.5 μ	Sol	Spec	Wotiz	JOC 20 (1955)	210
$C_{11}H_{10}N_4O_4S$	2-Thio-3-O-nitrophenyl-hydantoin-5-acetamide	600-4000	S	Spec, Ident	Epp	AC 29 (1957)	1283
$C_{11}H_{10}N_4O_8$	α -Ketoglutaric acid 2,4-dinitrophenylhydrazone	1400-1800 1300-1400	- L,S	Ident Spec, Struct	Drew Isherwood	JACS 74 (1952) N 175 (1955)	1852 419
$C_{11}H_{10}O$	1-Methoxynaphthalene	650-1000	Sol,S	Freq	Wang	SA 15 (1959)	1118
$C_{11}H_{10}O$	2-Methoxynaphthalene	650-1000	S,Sol	Freq	Wang	SA 15 (1959)	1118
$C_{11}H_{10}O$	2-Phenylcyclopent-2-enone	-	-	Freq	Amiel	JACS 76 (1954)	3625
$C_{11}H_{10}O$	3-Phenyl-2-cyclopentene-1-one	-	S,Sol	Freq, I	Yates	JACS 80 (1958)	5896
$C_{11}H_{10}O_2$	α -Benzylidene- γ -butyrolactone	-	L,S	Freq, Struct	Pinder	JCS - (1952)	2236
$C_{11}H_{10}O_2$	Benzocycloheptene-3,7-dione	-	Sol	Freq, Struct	Farmer	JCS - (1956)	3600
$C_{11}H_{10}O_2$	Cinnamylideneacetic acid	-	Sol	Group freq	Goulden	SA 6 (1954)	129
$C_{11}H_{10}O_2$	Decadiene-2,8-diyne-4,6-oic acid, methyl ester	0.9-3 μ	Sol	Spec	Holman	AC 28 (1956)	1533

$C_{11}H_{10}O_2$	1,2-Dihydro-2-naphthoic acid	2-12 μ	Sol	Spec	Schrecker	JACS 74 (1952)	5669
$C_{11}H_{10}O_2$	1,4-Dihydro-2-naphthoic acid	2-12 μ	Sol	Spec	Schrecker	JACS 74 (1952)	5669
$C_{11}H_{10}O_2$	3,4-Dihydro-2-naphthoic acid	2-12 μ	Sol	Spec	Schrecker	JACS 74 (1952)	5669
$C_{11}H_{10}O_2$	7- α -Furyl-2,4,6-heptatrienal	1400-2000	Sol	Spec	Blout	JACS 70 (1948)	194
$C_{11}H_{10}O_2$	Matricaria ester	2-16 μ	Sol	Spec	Celmer	JACS 74 (1952)	3838
$C_{11}H_{10}O_2$	5,8-Dimethylcoumarin	-	-	Band freq	Wendler	JACS 73 (1951)	3816
$C_{11}H_{10}O_2$	α -Methyl- γ phenyl- Δ - α, β -butenolide	-	Sol	Freq	Ramirez	JACS 77 (1955)	3768
$C_{11}H_{10}O_2$	α -Methyl- γ phenyl- Δ - β, γ -butenolide	-	Sol	Freq	Ramirez	JACS 77 (1955)	3768
$C_{11}H_{10}O_2$	5-Phenyl-trans-2,trans-4-pentadienoic acid	-	S	Freq, I	Allan	JCS - (1955)	1874
$C_{11}H_{10}O_2$	5-Phenyl-2-pentynoic acid	-	Sol	Freq, I	Allan	JCS - (1955)	1874
$C_{11}H_{10}O_3$	1-Benzoylcyclopropane-carboxylic acid	-	S	Freq, I	Piehl	JACS 75 (1953)	5023
$C_{11}H_{10}O_3$	β -Hydroplumbagin	-	S, Sol	Freq	Thomson	JCS - (1951)	1237
$C_{11}H_{10}O_3$	6-Phenyl-4-hydroxy-5,6-dihydro-2-pyrone (α and β forms)	2-15 μ	S	Spec	Reid	JACS 73 (1951)	1054
$C_{11}H_{10}O_4$	Deoxygladiolic acid	-	S	Freq	Grove	JCS - (1952)	3345

$C_{11}H_{10}O_4$	1',4'-Dihydroxybenzocycloheptene-3,7-dione	-	Sol	H bond	Farmer	JCS - (1956)	3600
$C_{11}H_{10}O_4$	4,6-Dimethoxyoumarin	2-15 μ	S,Sol	Spec, Struct	Farmer	SA 15 (1959)	870
$C_{11}H_{10}O_4$	4-Hydroxy-7-methoxy-3-methyloumarin	2-15 μ	S,Sol	Spec, Struct	Farmer	SA 15 (1959)	870
$C_{11}H_{10}O_4$	1,2,3,4-Tetrahydro-5,8-dihydroxy-6-methyl-1,4-dioxaphthalene	-	Sol	H bond	Farmer	JCS - (1956)	3600
$C_{11}H_{10}O_5$	Gladiolic acid	700-1900	S	Spec, Freq, Struct	Grove	JCS - (1952)	3345
$C_{11}H_{10}O_5 \cdot H_2O$	Gladiolic acid hemihydrate	700-1900	S	Freq, Spec	Grove	JCS - (1952)	3345
$C_{11}H_{10}O_5$	Isogladiolic acid	-	S	Freq	Grove	JCS - (1952)	3345
$C_{11}H_{10}O_5$	7-Methoxy-3-methyl-3-phthalidecarboxylic acid	-	-	Ident	Kushner	JACS 74 (1952)	3710
$C_{11}H_{10}O_6$	3-Hydroxy-7-methoxy-6-methylphthalide-4-carboxylic acid	-	S	Freq	Grove	JCS - (1952)	3345
$C_{11}H_{11}BrO_3$	p-Bromophenacyl propionate	-	-	Ident	Flynn	JACS 76 (1954)	3121
$C_{11}H_{11}ClO$	α -Methyl- α -chlorotetra- lone	1698	-	Freq	Stevens	JACS 77 (1955)	4590
$C_{11}H_{11}ClO_4$	4-Chloroformyl-5,6-dimethoxyphthalan	11 μ	S,Sol	Spec, Freq assign	Allison	JCS - (1958)	4311
$C_{11}H_{11}ClO_4$	Methyl 4-chloro-3-hydroxy-7-methoxy-3-methylphthalide, normal ester	-	-	Group study	Boothe	JACS 75 (1953)	3261

$C_{11}H_{11}ClO_4$	Methyl 4-chloro-3-hydroxy-7-methoxy-3-methyl-phthalide, pseudo ester	-	Group study	Boothe	JACS 75 (1953)	3261
$C_{11}H_{11}Cl_2NO_4$	N-Dichloroacetyl- β -phenylserine	-	Struct, Freq	Bergmann	JCS - (1951)	2673
$C_{11}H_{11}Cl_2N_2O_7P$	Chloromycetin- α, γ -phosphate	3.05-14.94 μ S	Freq, I, Group freq	Mosher	JACS 75 (1953)	4899
$C_{11}H_{11}N$	3-Allylindole	770-3080 L	Band freq, Group freq	Brown	JCS - (1952)	3172
$C_{11}H_{11}N$	β -Cyclooctatetraenyl-ethyl cyanide	2-16 μ L	Spec, Assign	Cope	JACS 75 (1953)	3215
$C_{11}H_{11}N$	2,8-Dimethylquinoline	2-15 μ -	Spec, Out of plane H deformation study	Karr	JACS 81 (1959)	152
$C_{11}H_{11}N$	N-Methyl- α -naphthyl-amine	1-12 μ L 0.6-2.3 μ L 2900-3100 Sol	Spec Group study Freq	Bell Ellis Hill	JACS 47 (1925) JACS 50 (1928) JCS - (1958)	3039 685 760
$C_{11}H_{11}NO$	N-Acetyliskatole	2-10 μ -	Spec	Geissman	JACS 74 (1952)	3916
$C_{11}H_{11}NO$	1,4-Dimethylcarbostyril	2-16 μ Sol	Spec, Freq	Cook	JOC 22 (1957)	211
$C_{11}H_{11}NO$	2,4-Dimethyl-8-quinolinol	2-11 μ Sol	Spec	Phillips	JACS 71 (1949)	3984
$C_{11}H_{11}NO$	β -Ethoxy- α -phenylacrylonitrile	- S	Freq	Chase	JCS - (1953)	3518
$C_{11}H_{11}NO$	1-Formyl-2, β -dimethyl-pyrrocoline	-	Group freq	Rossiter	JCS - (1953)	3654
$C_{11}H_{11}NO$	2-(2'-Hydroxyethyl)-quinoline	1300-1700 Sol	Freq	Katritzky	JCS - (1960)	2942
$C_{11}H_{11}NO$	3-Indolylacetone	- L	Group freq	Brown	JCS - (1952)	3172

C ₁₁ H ₁₁ NO ₂	1-Acetyl-3-hydroxymethyl- indole	700-4000 S	Spec, Freq	Tanner	SA	9 (1957)	282
C ₁₁ H ₁₁ NO ₂	1-Aza-7,8-benzocyclo- octane-di-2,6-one	2-11/μ Sol	Spec	Witkop	JACS	73 (1951)	2641
C ₁₁ H ₁₁ NO ₂	2,4-Dimethoxyquinoline	1450-4000 S	Spec, Freq	Price	AJC	12 (1959)	589
C ₁₁ H ₁₁ NO ₂	4,4-Dimethylhomophthal- imide	600-3500 S,Sol	H bond, Struct	Bluhm	SA	13 (1958)	93
C ₁₁ H ₁₁ NO ₂	1,3-Dimethyl-2-indole- carboxylic acid	650-3900 S	Spec	Snyder	JACS	70 (1948)	1857
C ₁₁ H ₁₁ NO ₂	3,3-Dimethylindolenine -2-carboxylic acid	- Sol	Freq	Witkop	JACS	75 (1953)	2572
C ₁₁ H ₁₁ NO ₂	4,4-Dimethyl-3-phenyl- isoxazol-5-one	1000-1850 S	Spec, Freq	Angyal	JCS	- (1953)	2181
C ₁₁ H ₁₁ NO ₂	4-Methoxy-1-methyl-2- quinolone	1450-4000 S	Spec, Freq	Price	AJC	12 (1959)	589
C ₁₁ H ₁₁ NO ₂	5-Methyl-1-acetyl- indoxyl	700-4000 Sol	Freq, Assign	Holt	JCS	- (1958)	1217
C ₁₁ H ₁₁ NO ₂	5-Methyl-N-acetyl- oxindole	700-4000 Sol	Freq	Holt	JCS	- (1958)	1217
C ₁₁ H ₁₁ NO ₂	1-Methylindoxyl acetate	700-4000 S,Sol	Freq, Struct, Assign	Holt	JCS	- (1958)	1217
C ₁₁ H ₁₁ NO ₂	5-Methylindoxyl acetate	- S,Sol	Freq, Struct, Assign, H bond	Holt	JCS	- (1958)	1217
C ₁₁ H ₁₁ NO ₂	1-Methyl-3-methoxy- methylenoxindole	2-11/μ Sol	Spec	Wenkert	JACS	75 (1953)	5574
C ₁₁ H ₁₁ NO ₂ .HBr	2-Phenyl-4,4-dimethyl-5 (4)-oxazolone hydrobro- mide	2-15/μ Sol	Freq, Struct	Smith	JACS	71 (1949)	1080

$C_{11}H_{11}NO_2$	Propionate indoxyl ester	700-4000	S, Sol	Struct, H bond, Assign, Freq	Holt	JCS -	(1958) 1217
$C_{11}H_{11}NO_3$	N-Benzoyloxysuccinimide	-	S	Freq	Ames	JCS -	(1955) 631
$C_{11}H_{11}NO_3$	5-Methoxy-1-acetylindoxyl	700-4000	Sol	Freq, Assign	Holt	JCS -	(1958) 1217
$C_{11}H_{11}NO_3$	6-Methoxy-1-acetylindoxyl	700-4000	Sol	Freq, Assign	Holt	JCS -	(1958) 1217
$C_{11}H_{11}NO_3^2$	p-Acetamidophenyl carboxymethyldithioacetate	400-4000	S	Spec, Freq	Bak	ACS	12 (1958) 1451
$C_{11}H_{11}NO_4$	N-Benzoyloxymaleimamic acid	-	S	Group freq	Ames	JCS -	(1955) 631
$C_{11}H_{11}NO_4$	7,9-Dimethoxyhomophthalimide	600-3500	S, Sol	Assign, Struct	Bluhm	SA	13 (1958) 93
$C_{11}H_{11}NO_4$	6,7-Dimethoxy-3,4-dihydroxyisoquinoline	-	-	Spec	Ban	CPBT	8 (1960) 194
$C_{11}H_{11}NO_4$	Ethyl o-nitrocinnamate	800-1600 800-1500	- Sol	I, Ext coefficient Assign	Katritzky Katritzky	JCS SA	(1959) 3670 16 (1960) 954
$C_{11}H_{11}NO_4$	Ethyl p-nitrocinnamate	1300-1600 700-1700 800-1500	S, Sol Sol Sol	Struct Freq assign, I Assign	Kross Katritzky Katritzky	JACS JCS SA	78 (1956) 4225 (1959) 2051 16 (1960) 954
$C_{11}H_{11}NO_4$	Ethyl β -O-nitrophenylacrylate	-	-	Assign	Katritzky	SA	16 (1960) 964
$C_{11}H_{11}NO_4$	Ethyl β -p-nitrophenylacrylate	-	-	Assign	Katritzky	SA	16 (1960) 964
$C_{11}H_{11}NO_4$	3-Hydroxymethylene-5,6-dimethoxyindole	-	Sol	Freq	Walker	JACS	77 (1955) 3844

C ₁₁ H ₁₁ N ₃ O ₄	850-4000	So1	Spec	Smith	JACS	75 (1953)	1134
p-Nitrophenyl-2-propanone enol acetate							
C ₁₁ H ₁₁ N ₃ O ₄ S	-	S	Freq	Momose	CPBT	6 (1958)	412
p-Cyanophenyl ethoxycarbonylmethyl sulfone							
C ₁₁ H ₁₁ NS ₂	-	-	Group freq	Moore	JCS	- (1952)	4237
2-(trans-But-2-enylthio)benzothiazole							
C ₁₁ H ₁₁ NS ₂	-	-	Freq	Moore	JCS	- (1952)	4237
3-(trans-But-2-enyl)-2-thiobenzothiazoline							
C ₁₁ H ₁₁ N ₃ O	400-4000	-	Freq	Gagnon	CJC	37 (1959)	110
4-Ethylidene-3-amino-1-phenyl-5-pyrazolone							
C ₁₁ H ₁₁ N ₃ O ₂	650-3600	S	Group study, Struct	Tanner	SA	8 (1956)	9
2-Amino-4-hydroxy-5-benzylloxypyrimidine							
C ₁₁ H ₁₁ N ₃ O ₂ S	2.5-15 μ 2.5-15 μ	S S	Spec, Ident Spec, Ident	Ramachandran Ramachandran	AC AC	27 (1955) 27 (1955)	1734 1734
3-Phenyl-2-thio-5-hydantoinacetamide							
C ₁₁ H ₁₁ N ₃ O ₃	-	-	Ident	Taylor	JOC	20 (1955)	264
1-5-(1,3-Dimethyl-2,4,6-trioxohexahydro-pyrimidinyl) pyridinium betaine							
C ₁₁ H ₁₁ N ₃ O ₃	2-11 μ	S, Sol	Spec	Sheehan	JACS	73 (1951)	1761
1-Phenyl-4,4-dicarboxamido-2-azetidione							
C ₁₁ H ₁₁ N ₃ O ₃ S	-	S	Group freq, Struct	Bergmann	JOC	18 (1953)	64
2-(p-Sulfonamidophenyl)-4-methyl-6-keto-5,6-dihydropyrimidine							
C ₁₁ H ₁₁ N ₃ O ₆	625-5000	S	Spec, Ident	Friedberg	CJC	37 (1959)	1469
DNP-L-Proline							
C ₁₁ H ₁₁ N ₃ O ₇	625-5000	S	Spec, Ident	Friedberg	CJC	37 (1959)	1469
DNP-hydroxy-L-proline							
C ₁₁ H ₁₁ N ₃ O ₇	625-5000	S	Spec, Ident	Friedberg	CJC	37 (1959)	1469
DNP-p-hydroxy-L-proline							

$C_{11}H_{11}N_5S$	2-Amino-4-anilino-6-vinyl-1,3,5-triazine	-	Ident, Freq	Overberger	JACS	76 (1954)	1061
$C_{11}H_{12}$	1-Phenylcyclopentene	3-4 μ Sol	Freq	Tallent	AC	28 (1956)	953
$C_{11}H_{12}$	3-Phenylcyclopentene	3-4 μ Sol	Freq	Tallent	AC	28 (1956)	953
$C_{11}H_{12}BrNO_3S$	1-p-Bromophenylmercapturic acid	2-15 μ S,Sol	Spec, Struct	Fuson	JACS	74 (1952)	1
$C_{11}H_{12}ClNO$	Acetylacetone-m-chloranil	-	Group freq	Edwards	JCS	- (1954)	2853
$C_{11}H_{12}ClNO$	Acetylacetone-o-chloranil	-	Group freq	Edwards	JCS	- (1954)	2853
$C_{11}H_{12}ClNO$	Acetylacetone-p-chloranil	-	Group freq	Edwards	JCS	- (1954)	2853
$C_{11}H_{12}ClNO_3S$	1-p-Chlorophenylmercapturic acid	2-15 μ S,Sol	Spec, Analysis	Fuson	JACS	74 (1952)	1
$C_{11}H_{12}FNO_3S$	1-p-Fluorophenylmercapturic acid	2-15 μ S,Sol	Spec, Analysis	Fuson	JACS	74 (1952)	1
$C_{11}H_{12}INO$	4-Methoxy-1-methyl-quinolinium iodide	1450-4000 S	Spec, Freq	Price	AJC	12 (1959)	589
$C_{11}H_{12}INO_3S$	1-p-Iodophenylmercapturic acid	2-15 μ S,Sol	Spec, Analysis, Struct	Fuson	JACS	74 (1952)	1
$C_{11}H_{12}N_2$	2-Phenyl-3,5-dimethylpyrazole	680-3000 Sol	Spec, Iso, Struct	Charette	SA	15 (1959)	70
$C_{11}H_{12}N_2OS_2$	2-Benzothiazolylsulfenophenolide	2800-3500 Sol	Spec, Freq, Struct	Flett	JCS	- (1953)	347
$C_{11}H_{12}N_2O_2$	Diacetylformaldehyde phenylhydrazone	650-4000 S,Sol	Group freq, H bond	Tanner	SA	15 (1959)	20
$C_{11}H_{12}N_2O_2$	3-Isopropylbenzoylene urea	2-16 μ S	Spec, Group freq	Staiger	JOC	18 (1953)	1427

C ₁₁ H ₁₂ N ₂ O ₂	2-Methyl-3-(2-nitroethyl)-indole	-	S	Freq	Noland	JACS 81 (1959) 1203
C ₁₁ H ₁₂ N ₂ O ₂	3-(1-Methyl-2-nitroethyl)indole	-	S, Sol	Freq	Noland	JACS 77 (1955) 456
C ₁₁ H ₁₂ N ₂ O ₂	3-n-Propylbenzoylene-urea	2-16 μ	S	Spec, Group freq	Staiger	JOC 18 (1953) 1427
C ₁₁ H ₁₂ N ₂ O ₂	Tryptophan	-	S	Ident Ident	Snyder Epp	JACS 77 (1955) 1257 AC 29 (1957) 1283
C ₁₁ H ₁₂ N ₂ O ₂ S	2-(p-Acetamidophenyl)-4-thiazolidone	-	Sol	Freq	Pennington	JACS 75 (1953) 109
C ₁₁ H ₁₂ N ₂ O ₂ S	5-1'-Hydroxyethyl-3-phenyl-2-thiohydantoin	2.5-15 μ	S	Spec, Ident	Ramachandran	AC 27 (1955) 1734
C ₁₁ H ₁₂ N ₂ O ₃	6-Acetoxy-4,5,2'-tri-methylloxazolo(5'4'-2:3)-pyridine	868-1748	S	Band freq	Ames	JCS - (1953) 3008
C ₁₁ H ₁₂ N ₄ O ₄	Cyclopentanone 2,4-dinitrophenylhydrazone	6-15 μ	S	Spec	Ross	AC 25 (1953) 1288
C ₁₁ H ₁₂ N ₄ O ₄	Tigaldehyde-2,4-dinitrophenylhydrazone	2-15 μ	S	Spec, Ident	Jones	AC 28 (1956) 191
C ₁₁ H ₁₂ N ₄ O ₆ S	γ -Methiol- α -ketobutyric acid 2,4-dinitrophenylhydrazone	1400-1800	-	Ident	Drew	JACS 74 (1952) 1852
C ₁₁ H ₁₂ O	Benzocycloheptanone	-	Sol	Freq	Farmer	JCS - (1956) 3600
C ₁₁ H ₁₂ O	2,3-Benzocycloheptanone	-	L	Freq, Struct	Scott	JACS 72 (1950) 240
		-	Sol	Freq	Pauson	CR 55 (1955) 9
		-	L	Freq	Schubert	JACS 77 (1955) 4172

$C_{11}H_{12}O$	o-2-Cyclopentenylphenol	-	Sol	Freq	Bader	JACS 75 (1953)	5967
$C_{11}H_{12}O$	p-1-Cyclopentenylphenol	-	Sol	Freq	Bader	JACS 75 (1953)	5967
$C_{11}H_{12}O$	p-2-Cyclopentenylphenol	-	Sol	Freq	Bader	JACS 75 (1953)	5967
$C_{11}H_{12}O$	2,3-Dimethylindone	-	-	Spec	Bergmann	BSCF - (1959)	634
$C_{11}H_{12}O$	Methyl 4-indanyl ketone	-	Sol	Freq	Hunsberger	JACS 77 (1955)	2466
$C_{11}H_{12}O$	Methyl 5-indanyl ketone	-	Sol	Freq	Hunsberger	JACS 77 (1955)	2466
$C_{11}H_{12}O$	α -Methyltetralone	1689	-	Freq	Stevens	JACS 77 (1955)	4590
$C_{11}H_{12}O$	Phenyl cyclobutyl ketone	1600-1800	Sol	Freq	Fuson	JACS 76 (1954)	2526
$C_{11}H_{12}O$	2-Phenylcyclopentanone	-	-	Freq	Mislow	JACS 77 (1955)	1590
$C_{11}H_{12}O$	1-Phenylcyclopropyl methyl ketone	2-14.5/ μ L	-	Spec, Band freq	Wiberley	AC 24 (1952)	623
$C_{11}H_{12}O$	2-Phenyl-3,4-dihydro-2H-pyran	-	-	Band freq	Smith	JACS 73 (1951)	5273
$C_{11}H_{12}O_2$	1-Benzylcyclopropane-carboxylic acid	-	Sol	Freq, I	Piehl	JACS 75 (1953)	5023
$C_{11}H_{12}O_2$	β -Cyclooctatetraenyl-propionic acid	2-16/ μ	Sol	Spec, Assign	Cope	JACS 75 (1953)	3215
$C_{11}H_{12}O_2$	Cyclopropyl o-anisyl ketone	2-14.5/ μ L	-	Spec, Freq	Wiberley	AC 24 (1952)	623
$C_{11}H_{12}O_2$	α, β -Epoxy- α -ethyl-propiphenone	1600-1800	Sol	Freq, Assign, Iso, Struct	House	JACS 80 (1958)	6389
$C_{11}H_{12}O_2$	Ethyl cinnamate	1740 600-4000	Sol Sol	Freq Freq, Substitution	Hampton Katritzky	AC 21 (1949) JCS - (1958)	914 4155

	Sol	Assign	Katritzky	JCS	(1958)	2182
$C_{11}H_{12}O_2$	-	H bond	Farmer	JCS	-	(1956) 3600
7-Hydroxy-3,4-dimethyl-indanone	-	H bond	Farmer	JCS	-	(1956) 3600
$C_{11}H_{12}O_2$	2-16 μ	Spec, Freq	Celmer	JACS	74	(1952) 3838
Lachnophyllum ester	2-16 μ	Spec, Freq	Celmer	JACS	74	(1952) 3838
$C_{11}H_{12}O_2$	-	Freq	Hunsberger	JACS	77	(1955) 2466
Methyl 5-hydroxy-4-indanyl ketone	-	Freq	Hunsberger	JACS	77	(1955) 2466
$C_{11}H_{12}O_2$	-	Freq	Hunsberger	JACS	77	(1955) 2466
Methyl 6-hydroxy-5-indanyl ketone	-	Freq	Hunsberger	JACS	77	(1955) 2466
$C_{11}H_{12}O_2$	-	Freq	Hunsberger	JACS	77	(1955) 2466
Methyl 4-indancarboxylate	-	Freq	Hunsberger	JACS	77	(1955) 2466
$C_{11}H_{12}O_2$	-	Freq	Hunsberger	JACS	77	(1955) 2466
Methyl 5-indancarboxylate	-	Freq	Hunsberger	JACS	77	(1955) 2466
$C_{11}H_{12}O_2$	2-12 μ	Spec	Schrecker	JACS	74	(1952) 5669
1,2,3,4-Tetrahydro-2-naphthoic acid	2-12 μ	Spec	Schrecker	JACS	74	(1952) 5669
$C_{11}H_{12}O_2$	2-16 μ	Spec	Doering	JACS	75	(1953) 297
4,5-Tetramethyl-enetropolone	2-16 μ	Spec	Doering	JACS	75	(1953) 297
$C_{11}H_{12}O_2S_2$	400-4000	Spec, Freq	Bak	ACS	12	(1958) 1451
Carboxymethyl α -benzyl-dithioacetate	400-4000	Spec, Freq	Bak	ACS	12	(1958) 1451
$C_{11}H_{12}O_3$	-	H bond	Farmer	JCS	-	(1956) 3600
1':4'-Dihydroxybenzocycloheptenone	-	H bond	Farmer	JCS	-	(1956) 3600
$C_{11}H_{12}O_3$	600-4000	Freq	Smith	JCS	-	(1955) 2347
3,4-Dimethoxycinnanaldehyde	600-4000	Freq	Smith	JCS	-	(1955) 2347
$C_{11}H_{12}O_3$	-	Spec, Freq	Herzert	JOC	25	(1960) 405
4,7-Dimethoxyindanone	-	Spec, Freq	Herzert	JOC	25	(1960) 405
$C_{11}H_{12}O_3$	-	Freq	Farmer	JCS	-	(1956) 3600
Ethyl benzoylacetate	-	Freq	Farmer	JCS	-	(1956) 3600
$C_{11}H_{12}O_3$	1200-2000	Freq	Bender	JACS	75	(1953) 6304
Ethyl α -formylphenylacetate	1200-2000	Freq	Bender	JACS	75	(1953) 6304
$C_{11}H_{12}O_3$	-	Freq	Friedmann	JCS	-	(1954) 3687

$C_{11}H_{12}O_3$	Ethyl β -phenylglycidate	1600-1800	Sol	Freq, Iso, Struct	House	JACS	80 (1958)	6389
$C_{11}H_{12}O_3$	8-Hydroxy-5-methoxy-tetralone	-	Sol	H bond	Farmer	JCS	-	(1956) 3600
$C_{11}H_{12}O_3$	Isomyristicin	700-1500	S,Sol	Group freq	Briggs	AC	29 (1957)	904
$C_{11}H_{12}O_3$	7-Methoxy-4,6-dimethyl-phthalide	-	S,Sol	Freq	Duncanson	JCS	-	(1953) 1331
$C_{11}H_{12}O_3$	6-Methoxy-5-indancarboxylic acid	-	S,Sol	Group freq	Hunsberger	JACS	77 (1955)	2466
$C_{11}H_{12}O_3$	Methyl n-methoxy cinnamate	700-1700 900-3000 800-1500	Sol Sol Sol	I Freq, Assign Assign Assign	Katritzky Katritzky Katritzky Katritzky	JCS JCS SA SA	- - 16 16	(1959) 2058 (1959) 2062 (1960) 954 (1960) 964
$C_{11}H_{12}O_3$	Methyl 5-hydroxy-4-indanyloarboxylate	-	Sol	Freq	Hunsberger	JACS	77 (1955)	2466
$C_{11}H_{12}O_3$	Methyl 6-hydroxy-5-indancarboxylate	-	Sol	Freq	Hunsberger	JACS	77 (1955)	2466
$C_{11}H_{12}O_4$	Acetovanillone acetate	600-4000	S	Spec, Freq	Herzert	JOC	25 (1960)	405
$C_{11}H_{12}O_4$	Benzylidene diacetate	665-1755	L	Assign, I	Bell	JCS	-	(1960) 1209
$C_{11}H_{12}O_4$	3,4-Dimethoxycinnamic acid	600-4000	-	Spec, Freq	Herzert	JOC	25 (1960)	405
$C_{11}H_{12}O_4$	4,6-Dimethoxy-5-methyl-oooumaranone	-	-	Freq	Mullholland	JCS	-	(1953) 1642
$C_{11}H_{12}O_4$	Methyl 3-hydroxy-7-methoxy-3-methyl-phthalide, normal ester	-	-	Absorption	Boothe	JACS	75 (1953)	3261

Chemical Formula	Chemical Name	Wavenumber (cm ⁻¹)	Solvent	Absorption	Author	Journal	Year	Page
C ₁₁ H ₁₂ O ₄	Methyl 3-hydroxy-7-methoxy-3-methylphthalide, pseudo ester	-	-	-	Boothe	JACS	75 (1953)	3261
C ₁₁ H ₁₂ O ₄	3-Phenyl-2-p-dioxanecarboxylic acid pyrolysate fraction	818-3440	Sol	Freq	Gutsche	JACS	76 (1954)	2236
C ₁₁ H ₁₂ O ₄	Sinapaldehyde	6-12.2/μ	Sol	Band freq	Black	JACS	75 (1953)	5344
C ₁₁ H ₁₂ O ₅	4-Carboxy-5',6-dimethoxyphthalan	11/μ	S, Sol	Spec, Assign	Allison	JCS	- (1958)	4311
C ₁₁ H ₁₂ O ₅	4-Carboxy-5,7-dimethoxyphthalan	11/μ	S, Sol	Spec, Assign	Allison	JCS	- (1958)	4311
C ₁₁ H ₁₂ O ₅	Dihydrogladiolic acid	-	S, Sol	Freq	Duncanson	JCS	- (1953)	3637
C ₁₁ H ₁₂ O ₆	Cyclopolic acid	-	S, Sol	Freq	Duncanson	JCS	- (1953)	3637
C ₁₁ H ₁₃ BrOS	Butylthio p-bromobenzoate	2.5-16/μ	Sol	Struct, Group freq	Nyquist	SA	15 (1959)	514
C ₁₁ H ₁₃ BrO ₆	2-Bromo-2-carbomethoxy-4,6-dicarboxyheptanedilactone	-	Sol	Band freq	Marvel	JACS	75 (1953)	2326
C ₁₁ H ₁₂ ClOS	Butylthio m-chlorobenzoate	2.5-16/μ	Sol	Struct, Group freq	Nyquist	SA	15 (1959)	514
C ₁₁ H ₁₃ ClO ₄	ω-Chloro-2-hydroxy-4,6-dimethoxy-3-methylacetophenone	-	-	Freq	Mullholland	JCS	- (1953)	1642
C ₁₁ H ₁₃ Cl ₂ NO ₃	6-Butylamino-3,5-dichloro-2-methoxy-p-benzoquinone	-	Sol	Absorption	Buckley	JCS	- (1957)	4891
C ₁₁ H ₁₃ Cl ₃ O	2,4,4-Trichloro-3-methyl-6-t-butyl-2,5-cyclohexadiene-1-one	3.36-6.84/μ	Sol	I	Forman	JACS	76 (1954)	4977

$C_{11}H_{13}FOS$	Butylthio o-fluoro- benzoate	2.5-16 μ	Sol	Struct, Group freq	Nyquist	SA	15 (1959)	514
$C_{11}H_{13}IOS$	Butylthio m-iodo- benzoate	2.5-16 μ	Sol	Struct, Group freq	Nyquist	SA	15 (1959)	514
$C_{11}H_{13}IOS$	Butylthio o-iodo benzoate	2.5-16 μ	Sol	Struct, Group freq	Nyquist	SA	15 (1959)	514
$C_{11}H_{13}IO_4$	p-Iodosotoluene diacetate	665-1775	S,Sol	Assign, I	Bell	JCS	- (1960)	1209
$C_{11}H_{13}IO_5$	p-Iodosoanisole diacetate	665-1775	S,Sol	Assign, I	Bell	JCS	- (1960)	1209
$C_{11}H_{13}N$	2-Benzylpyrrolone	6-10 μ	Sol	Freq	Meyers	JOC	24 (1959)	1233
$C_{11}H_{13}N$	Dimethylketene p-tolylimine	-	-	Group freq	Stevens	JACS	76 (1954)	4398
$C_{11}H_{13}N$	3-n-Propylindole	1090-3055	L	Group freq	Brown	JCS	- (1952)	3172
$C_{11}H_{13}N$	2,3,5,6-Tetramethyl- benzotrile	700-2900	S,Sol	Spec, Freq	Speroni	JCP	26 (1957)	1777
$C_{11}H_{13}NO$	4-Anilino-3-pentene-2-one	650-4000	L,S	Spec, Assign	Holtzclaw	JACS	80 (1958)	1100
$C_{11}H_{13}NO$	1-Benzylpyrrolid-2-one	-	-	Ident	Gillots	JCS	- (1955)	2371
$C_{11}H_{13}NO$	β -Dimethylaminoacrylo- phenone	1500-1800	Sol	Freq, Struct	Leonard	JACS	81 (1959)	595
$C_{11}H_{13}NO$	2,3-Dimethyl-6-methoxy- indole	2.5-12 μ 5.5-10 μ	Sol Sol	Spec, Struct Spec, Ident	Neuss Neuss	JACS JACS	76 (1954) 76 (1954)	2463 3234
$C_{11}H_{13}NO$	2-p-Methoxyphenyl- pyrrolone	6-20 μ	Sol	Freq	Meyers	JOC	24 (1959)	1233
$C_{11}H_{13}NO$	1-Methyl-2,3,4,5- tetrahydro-5-keto-1- benzazepine	-	L	Freq	Astill	JACS	77 (1955)	4079

C ₁₁ H ₁₃ NO	4000-650	L, S	Assign	Holtz	JACS 80 (1958)	1100
1-Phenyl-3-amino-2-butene-1-one						
1-Phenyl-3-piperidone	-	-	Group freq	Leonard	JACS 75 (1953)	3727
2,3,5,6-Tetramethylbenzotrile oxide	700-2900	S, Sol	Spec, Freq	Speroni	JCP 26 (1957)	1777
β -Diethylaminoacrylophenone perchlorate	1500-3500	S	Freq, Struct	Leonard	JACS 81 (1959)	595
Cyclobutyl N-phenylcarbamate	2-16 μ	Sol	Spec	Roberts	JACS 73 (1951)	2509
Cyclopropylcarbonyl N-phenylcarbamate	2-16 μ	Sol	Spec	Roberts	JACS 73 (1951)	2509
N,N-Diethyl benzylamine	6 μ	L	Band study	Abramovitch	JCS - (1957)	1413
N,N-Diacetyl-m-toluidine	6 μ	L	Band study	Abramovitch	JACS 79 (1957)	1413
N,N-Diacetyl-o-toluidine	6 μ	L	Band study	Abramovitch	JACS 79 (1957)	1413
N,N-Diacetyl-p-toluidine	6 μ	L	Band study	Abramovitch	JACS 79 (1957)	1413
Ethyl α -cyano- β -methylcyclopent-2-enylidene acetate	-	S	Group freq	Acheson	JCS - (1952)	3415
Hydrodrastinine	-	-	Ident	Highet	JACS 77 (1955)	4399
	-	Sol	Band freq	Wildman	JACS 77 (1955)	1248
	700-3000	S, Sol	Group freq	Briggs	AC 29 (1957)	904
N-Methyl- β -benzoylpropionamide	700-4000	S	Band assign, Struct Taut	Cronwell	JACS 80 (1958)	4573
1-Methyl-3-methoxymethyl-oxindole	2-11 μ	Sol	Spec	Wenkert	JACS 75 (1953)	5514

$C_{11}H_{13}NO_2$	β -(3-Pyridyl)-n-propyl acrylate	-	-	Assign	Katritzky	SA 16 (1960)	964
$C_{11}H_{13}NO_2S$	β -Benzylsulfonyl- α -methylpropionitrile	-	-	Spec	Ross	JACS 73 (1951)	540
$C_{11}H_{13}NO_2S$	2,5-Diethoxyphenyl isothiocyanate	2000-2300	Sol	Freq	Caldow	SA 13 (1958)	212
$C_{11}H_{13}NO_2S$	β -Phenylsulfonyl- α -ethylpropionitrile	-	-	Spec	Ross	JACS 73 (1951)	540
$C_{11}H_{13}NO_3$	4-Amido-5-methoxy-6-methylphthalan	11 μ	S,Sol	Spec, Assign	Allison	JCS - (1958)	4311
$C_{11}H_{13}NO_3$	α -Benzamidoisobutyric acid	2-15 μ	Sol	Freq, Struct	Smith	JACS 71 (1949)	1080
$C_{11}H_{13}NO_3$	N,N-Diacetyl-o-anisidine	-	Sol	Spec, Band freq	Witkop	JACS 74 (1952)	3861
$C_{11}H_{13}NO_3$	N,N-Diacetyl-p-anisidine	6 μ	L	Band study	Abramovitch	JCS - (1957)	1413
$C_{11}H_{13}NO_3$	N,N-Diacetyl-p-anisidine	6 μ	L,S, Sol	Band study	Abramovitch	JCS - (1957)	1413
$C_{11}H_{13}NO_3$	N,N-Diacetyl-o-benzylhydroxylamine	-	S	Group freq	Ames	JCS - (1955)	631
$C_{11}H_{13}NO_3$	Ethyl hippurate	1500-1750	S	Spec, Assign	Richards	JCS - (1947)	1248
$C_{11}H_{13}NO_3$	Hydrastinine	-	-	Ident	Hight	JACS 77 (1955)	4399
$C_{11}H_{13}NO_3$	N-(α -Methylacetate)-phenylacetamide	700-3000	S,Sol	Group freq	Briggs	AC 29 (1957)	904
$C_{11}H_{13}NO_3$	N-(α -Methylacetate)-phenylacetamide	1500-3600	S,Sol	Spec, Assign	Richards	JCS - (1947)	1248
$C_{11}H_{13}NO_3$	Methyl N-methyl-N-acetylglucanilate	2-15 μ	-	Freq, Struct	Rasmussen	JACS 71 (1949)	1073

C ₁₁ H ₁₃ NO ₃	β-(3-Pyridine-1-oxide) n-propyl acrylate	800-3000 800-1500	Sol Sol	Spec, Freq, I Assign Assign	Katritzky Katritzky Katritzky	JCS SA SA	- 16 16	(1959) (1960) (1960)	3680 954 964
C ₁₁ H ₁₃ NO ₃ S	l-phenylmercapturic acid	2-15 μ	S, Sol	Spec, Analysis, Struct	Fuson	JACS	74	(1952)	1
C ₁₁ H ₁₃ NO ₄	4-Amido-5,6-dimethoxy- phthalan	11 μ	S, Sol	Spec, Assign	Allison	JCS	-	(1958)	4311
C ₁₁ H ₁₃ NO ₄	N-Benzyloxysuccinamic acid	-	S	Group freq	Ames	JCS	-	(1955)	631
C ₁₁ H ₁₃ NO ₄	Carbobenzoxylglycine methyl ester	1350-1550	L	Spec, Ident	Watson	SA	16	(1960)	1322
C ₁₁ H ₁₃ NO ₄	Carbobenzoxysarcosine	1350-1550	L	Spec, Ident	Watson	SA	16	(1960)	1322
C ₁₁ H ₁₃ NO ₄	2,6-Diacetoxy-3,4-di- methylpyridine	885-1760	S	Band freq	Ames	JCS	-	(1953)	3008
C ₁₁ H ₁₃ NO ₄	Ethyl α-acetoxy-2- pyridineacetate	649-3480	L	Band freq	Edwards	CJC	32	(1954)	85
C ₁₁ H ₁₃ NO ₄	Ethyl α-nitro-β-phenyl- propionate	-	-	Freq	Emmons	JACS	77	(1955)	4391
C ₁₁ H ₁₃ NO ₄	Ethyl-p-carbomethoxy-N- phenylurethan	1000-2500	Sol	Spec, Assign, I	Katritzky	JCS	-	(1960)	676
C ₁₁ H ₁₃ NO ₄ S	p-Diacetylamino phenyl methyl sulfone	-	S	Freq	Momose	CPBT	6	(1958)	412
C ₁₁ H ₁₃ NO ₄ S	p-Formylaminomethylphenyl acetylmethyl sulfone	-	S	Freq	Momose	CPBT	6	(1958)	412
C ₁₁ H ₁₃ NS	β-Benzylmercapto-α- methylpropionitrile	-	-	Spec	Ross	JACS	73	(1951)	540
C ₁₁ H ₁₃ NS	p-t-Butylphenyl isothiocyanate	600-4000	S	Spec	Ham	SA	16	(1960)	279

$C_{11}H_{13}NS$	5,5-Dimethyl-2-phenyl-3-thiopyrrolone	6.19 μ	Sol	Freq	Meyers	JOC	24 (1959)	1233
$C_{11}H_{13}NS$	β -Phenylmercapto- α -ethylpropionitrile	-	-	Spec	Ross	JACS	73 (1951)	540
$C_{11}H_{13}N_2O_2$	α -Amino- β -(6-methyl-3-indazolyl)propionic acid	-	-	Ident	Snyder	JACS	76 (1954)	1298
$C_{11}H_{13}N_2O_6$	DNP-DL-Valine	625-5000	S	Spec, Ident	Friedberg	CJC	37 (1959)	1469
$C_{11}H_{13}N_2O_6$	DNP-L-Valine	625-5000	S	Spec, Ident	Friedberg	CJC	37 (1959)	1469
$C_{11}H_{13}N_2O_5S$	DNP-DL-Methionine	625-5000	S	Spec, Ident	Friedberg	CJC	37 (1959)	1469
$C_{11}H_{13}N_5$	2-Amino-4-anilino-6-ethyl-1,3,5-triazine	-	-	Ident	Overberger	JACS	76 (1954)	1061
$C_{11}H_{14}$	1,2-Dimethylindan	2-15 μ	L	Spec, Physical properties	Entel	AC	25 (1953)	1303
$C_{11}H_{14}$	1,3-Dimethylindan	2-16 μ	L	Spec	Entel	AC	25 (1953)	1303
$C_{11}H_{14}$	1,6-Dimethylindan	2-16 μ	L	Spec	Entel	AC	25 (1953)	1303
$C_{11}H_{14}$	4,7-Dimethylindan	2-16 μ	L	Spec	Entel	AC	26 (1954)	612
$C_{11}H_{14}$	1-Ethylindan	7.69-13.5 μ	-	Analysis	Pines	JACS	77 (1955)	554
$C_{11}H_{14}$	2-Methyl-3-phenyl-2-butene	3.30-14.32 μ	-	Table	Brewster	JACS	76 (1954)	6368
$C_{11}H_{14}$	3-Methyl-1-phenylbutene-1	670-1750	-	Spec	Bateman	JCS	- (1951)	2283
$C_{11}H_{14}$	3-Methyl-1-phenylbutene-2	670-1750	-	Spec	Bateman	JCS	- (1951)	2283
$C_{11}H_{14}$	Phenylcyclopentane	3-4 μ	L, Sol	Freq	Tallent	AC	28 (1956)	953

C ₁₁ H ₁₄	n-Propylcyclooctatetraene	2-16/μ	-	Spec	Cope	JACS 74 (1952)	179
C ₁₁ H ₁₄	2,4,5-Trimethylstyrene	700-1900	L	Spec	Bryant	JCS - (1949)	2389
C ₁₁ H ₁₄	2,4,6-Trimethylstyrene	700-1900	L	Spec	Bryant	JCS - (1949)	2389
C ₁₁ H ₁₄ BrNO ₃	2-Bromo-3-methyl-4-nitro-6-t-butylphenol	2.83-6.92/μ	Sol	I, Group freq	Albert	JACS 76 (1954)	4979
C ₁₁ H ₁₄ BrNO ₄	4-Bromo-2,3-dicarbethoxy-5-methylpyrrole	500-4000	S	Spec, Freq, Assign	Eisner	JCS - (1958)	971
C ₁₁ H ₁₄ Br ₂ O	2,4-Dibromo-3-methyl-6-t-butylphenol	2.8-6.9/μ	Sol	I	Forman	JACS 76 (1954)	4977
C ₁₁ H ₁₄ Br ₂ O ₄	Dimethyl exo-cis-3,6-endomethylene-4,5-trans-dibromohexahydro-phthalate	-	Sol	Ident, Spec	Berson	JACS 76 (1954)	5748
C ₁₁ H ₁₄ ClNO ₃	2-Chloro-3-methyl-4-nitro-6-t-butylphenol	2.83-6.93/μ	Sol	Table, I, Freq	Albert	JACS 76 (1954)	4979
C ₁₁ H ₁₄ Cl ₂ N ₂ O ₂ ·HCl	N-Bis-(β-chloroethyl)p-nitrobenzylamine hydrochloride	-	-	Spec	Chizhov	ZOK 30 (1960)	3695
C ₁₁ H ₁₄ N ₂	Gramine	-	Sol	Freq	Marion Hill	JACS 73 (1951)	305
C ₁₁ H ₁₄ N ₂	2-Methyl-3-(2'-aminoethyl)indole	2900-3100	Sol	Freq	JCS - (1958)	760	
C ₁₁ H ₁₄ N ₂ O	N-(2-cyano-2-propyl)-n-m-tolylhydroxyamine	-	S	Freq	Noland	JACS 81 (1959)	1203
C ₁₁ H ₁₄ N ₂ O	N-(2-cyano-2-propyl)-n-o-tolylhydroxyamine	-	-	Group freq, I	Gingras	JCS - (1954)	1920
C ₁₁ H ₁₄ N ₂ O	N-(2-cyano-2-propyl)-n-o-tolylhydroxyamine	-	-	Ident, Freq, I	Gingras	JCS - (1954)	1920

$C_{11}H_{14}N_2O$	Cytisine	-	Sol	Freq Group freq Spec	Marion Thyagarajan Heacock	JACS CR CJC	73 (1951) 54 (1954) 34 (1956)	305 1019 1782
$C_{11}H_{14}N_2O \cdot HClO_4$	Cytisineperchlorate	600-4000	S	Spec, Freq	Heacock	CJC	34 (1956)	1782
$C_{11}H_{14}N_2O_2$	Acetyl- α -hydroethyl- formaldehyde phenyl- hydrazone	650-4000	S, Sol	H bond, Freq	Tanner	SA	15 (1959)	20
$C_{11}H_{14}N_2O_2$	γ -Carboxy- γ -isopropenyl- pimelonitrile	700-4000	S	Spec, Struct	Frank	JACS	71 (1949)	1387
$C_{11}H_{14}N_2O_2$	α -Cyanoethyl- α -isopropenyl- nylgutarimide	700-4000	S	Spec, Struct	Frank	JACS	71 (1949)	1387
$C_{11}H_{14}N_2O_2$	2-Phenyl- β -nitroso-4- ethylloxazolidine	-	L	Group study	Golberg	JACS	75 (1953)	6260
$C_{11}H_{14}N_2O_2 \cdot HCl$	Phenaceturimido methyl ether hydrochloride	-	-	Group freq	Leonard	JACS	76 (1954)	2781
$C_{11}H_{14}N_2O_5$	2,4-Dinitro- β -methyl-6- t-butylphenol	3.04-6.96 μ	Sol	I, Group freq	Albert	JACS	76 (1954)	4979
$C_{11}H_{14}N_2O_5$	erythro-p-Nitrophenyl- serine ethyl ester	-	-	Spec, Ident	Bergmann	JCS	-	(1953) 2564
$C_{11}H_{14}N_2O_5$	threo-p-Nitrophenyl- serine ethyl ester	-	-	Ident, Spec	Bergmann	JCS	-	(1953) 2564
$C_{11}H_{14}N_2O_5 \cdot HCl$	erythro-p-Nitrophenyl- serine ethyl ester hydrochloride	-	S	Spec, Ident	Bergmann	JCS	-	(1953) 2564
$C_{11}H_{14}N_2O_5 \cdot HCl$	threo-p-Nitrophenylserine ethyl ester hydrochloride	-	S	Spec, Ident	Bergmann	JCS	-	(1953) 2564

$C_{11}H_{14}N_2S$	N-cis-Crotyl-N'-phenyl-thiourea	9.4-14.58 μ S	Table	Ettlinger	JACS	77 (1955)	1831
$C_{11}H_{14}N_2S$	N-trans-Crotyl-N'-phenyl-thiourea	9.25-14.53 μ S	Table	Ettlinger	JACS	77 (1955)	1831
$C_{11}H_{14}N_4O_4$	Diethyl ketone-2,4-dinitrophenylhydrazone	6-15 μ S 2-15 μ S	Spec Spec, Ident	Ross Jones	AC AC	25 (1953) 28 (1956)	1288 191
$C_{11}H_{14}N_4O_4$	3-Methyl-2-butanone-2,4-dinitrophenylhydrazone	6-15 μ S 2-15 μ S	Spec Spec, Ident	Ross Jones	AC AC	25 (1953) 28 (1956)	1288 191
$C_{11}H_{14}O$	ortho-(1',1'-Dimethylallyl)phenol	2.7-2.95 μ Sol	H bond	Baker	JACS	81 (1959)	4524
$C_{11}H_{14}O$	2-Allyl-3,5-dimethylphenol	2.7-3.0 μ Sol 2.7-2.95 μ Sol	H bond, Freq H bond, Group study	Baker Baker	JACS JACS	80 (1958) 81 (1959)	5358 4524
$C_{11}H_{14}O$	2-Allyl-5,6-dimethylphenol	2.7-2.95 μ Sol	H bond, Group study	Baker	JACS	81 (1959)	4524
$C_{11}H_{14}O$	Ortho-(3,3'-Dimethylallyl)phenol	2.7-2.95 μ Sol	H bond, Group study	Baker	JACS	81 (1959)	4524
$C_{11}H_{14}O$	2-n-Butyltropone	2-16 μ Sol	Spec, Struct	Doering	JACS	74 (1952)	5688
$C_{11}H_{14}O$	Cyclooctatetraenyl-dimethylcarbinol	2-16 μ L	Spec	Cope	JACS	75 (1953)	3220
$C_{11}H_{14}O$	γ -Cyclooctatetraenyl-n-propylalcohol	2-16 μ L	Spec	Cope	JACS	75 (1953)	3220
$C_{11}H_{14}O$	Ethyl p-xylyl ketone	1600-1800 Sol	Group freq	Fuson	JACS	76 (1954)	2526
$C_{11}H_{14}O$	cis-2-Keto-10-methylhexahydronaphthalene	3,6- 2-12 μ Sol	Band freq	Woodward	JACS	74 (1952)	4223

$C_{11}H_{14}O$	trans-2-Keto-10-methyl- $\Delta^{3,6}$ -hexahydronaphthalene	2-12 μ	Sol	Spec Ident, Spec	Woodward Speziale	JACS 74 (1952) 4223 JACS 76 (1954) 5011
$C_{11}H_{14}O$	10-Methyl-2-keto- $\Delta^{1,9,3,4}$ -hexahydronaphthalene	2-12 μ	Sol	Spec	Woodward	JACS 72 (1950) 494
$C_{11}H_{14}O$	4-Methyl-ar-1-tetralol	-	S	Band freq	Dreiding	JACS 75 (1953) 3159
$C_{11}H_{14}O$	4-Methyl-ar-2-tetralol	-	S	Band freq	Dreiding	JACS 75 (1953) 3159
$C_{11}H_{14}O$	Pivalophenone	3.30-12.01 μ	-	Table	Brewster	JACS 76 (1954) 6368
$C_{11}H_{14}O$	o-Tolyl n-propyl ketone	-	-	Group freq	Pickard	JACS 76 (1954) 5169
$C_{11}H_{14}O$	2,4,6-Trimethylacetophenone	1705	L Sol	Group freq Freq, I	Schubert Tanaka	JACS 77 (1955) 4172 JCP 24 (1956) 311
$C_{11}H_{14}O$	n-Valerophenone	1600-1800 1700	Sol Sol	Group freq Freq, I	Fuson Thompson	JACS 76 (1954) 2526 SA 9 (1957) 208
$C_{11}H_{14}OS$	Benzyl thiobutyrate	2.5-16 μ	Sol	Struct, Freq	Nyquist	SA 15 (1959) 514
$C_{11}H_{14}OS$	Butyl thiobenzoate	2.5-16 μ	Sol	Struct, Freq	Nyquist	SA 15 (1959) 514
$C_{11}H_{14}O_2$	n-Butyl benzoate	1740	Sol	Band freq Freq, I	Hampton Thompson	AC 21 (1949) 914 SA 13 (1958) 236
		800-1500	Sol	Assign	Katritzky	SA 16 (1960) 954
		650-900	-	Assign	Katritzky	SA 16 (1960) 964
			L, Sol	CH out of plane study	Yoshida	CPPT 8 (1960) 389
$C_{11}H_{14}O_2$	s-Butyl benzoate	800-1500	Sol	Assign	Katritzky	SA 16 (1960) 954
		-	-	Assign	Katritzky	SA 16 (1960) 964
$C_{11}H_{14}O_2$	t-Butyl benzoate	-	L	Freq	Ory	AC 32 (1960) 509

$C_{11}H_{14}O_2$		Sol	Freq	Morton	JOC	20 (1955)	428
m-t-Butylbenzoic acid	-	Sol	Freq	Morton	JOC	20 (1955)	428
p-t-Butylbenzoic acid	-	Sol	Freq	Morton	JOC	20 (1955)	428
Ethyl 2-phenylpropionate	3.34-14.34/Sol	Sol	Band freq	Mislow	JACS	75 (1953)	2318
	600-4000 Sol	Sol	Assign	Katritzky	JCS	- (1958)	2182
		Sol	Group freq	Katritzky	JCS	- (1958)	4155
trans-1-Hydroxy-2-keto-10-methyl $\Delta^{3,6}$ -hexahydronaphthalene	2-12/ μ	Sol	Spec	Woodward	JACS	74 (1952)	4223
β -(Hydroxymethyl)-butyrophenone	-	-	Freq	Ramirez	JACS	77 (1955)	3768
Isobutyl benzoate	-	Sol	Freq, I	Thompson	SA	13 (1958)	236
3-Isopropenyl-1,2-dimethoxybenzene	-	Sol	Group freq	Edwards	JOC	20 (1955)	847
2-Methoxy-3,4-dimethylacetophenone	-	L	Group freq	Gordner	JCS	- (1954)	1817
Methyl deca-2,4-diyanoate	-	L	Group freq	Crombie	JCS	- (1955)	999
	-	L	Band freq	Crombie	JCS	- (1955)	1007
2-Phenyl-6-hydroxy-tetrahydropyran	-	-	Compound exists almost like cyclic hemiacetal	Smith	JACS	73 (1951)	5273
dl-Pyrethrolone-B-2 (naturally derived cis)	2.5-15/ μ	L	Spec, Struct, Ident	Crombie	JCS	- (1951)	2906
dl-trans-Pyrethrolone (synthetic)	2.5-15/ μ	L	Spec, Struct, Freq	Crombie	JCS	- (1951)	2906
2-Acetyl-4,4,6-trimethylcyclohex-5-ene-1,3-dione	1500-2700	L	Assign, H bond	Chan	JCS	- (1956)	3495

$C_{11}H_{14}O_3$	n-Butyl β -(2'-furyl) acrylate	800-1700 - 800-1500	Sol - Sol	Freq, Assign Assign Assign	Katritzky Katritzky Katritzky	JCS SA SA	- 16 16	(1959) (1960) (1960)	657 964 954
$C_{11}H_{14}O_3$	Butyl p-hydroxybenzoate	3 μ	Sol	Freq	Ingraham	JACS	74	(1952)	2297
$C_{11}H_{14}O_3$	t-Butyl perbenzoate	- 5-15 μ 665-5000	- Sol L	Group freq Spec Group freq	Davison Minkoff Ory	JCS PMS AC	- 224 32	(1951) (1954) (1960)	2456 176 509
$C_{11}H_{14}O_3$	Butyl salicylate	2-15 μ	-	Freq, Struct	Rasmussen	JACS	71	(1949)	1073
$C_{11}H_{14}O_3$	Dehydroangustione	3.3-14.1 μ	-	Freq, I	Birch	JCS	-	(1951)	3026
$C_{11}H_{14}O_3$	Ethyl tropate	-	S, Sol	Group freq	Friedmann	JCS	-	(1954)	3687
$C_{11}H_{14}O_3$	β -Hydroxy- α -methyl- β -phenylbutyric acid	-	-	Comparison	Zimmerman	JACS	76	(1954)	2294
$C_{11}H_{14}O_4$	β -(2-Carboxymethyl-1-cyclohexene)acrylic acid	3.66-13.7 μ S	-	I	Dreiding	JACS	76	(1954)	6388
$C_{11}H_{14}O_5$	Methyl β ,4,4,5-trimethoxybenzoate	- -	- -	Group freq Ident	Neuss Klohs	JACS JACS	75 77	(1953) (1955)	4870 4084
$C_{11}H_{14}O_5$	Phenyl- α -D-xyloside	-	S	Band freq, I	Whistler	AC	25	(1953)	1463
$C_{11}H_{14}O_5$	Phenyl- β -D-xyloside	-	S	Band freq, I	Whistler	AC	25	(1953)	1463
$C_{11}H_{14}O_5$	β ,4,6-Trimethoxycycloheptatrienecarboxylic acid	657-2632	S	Table, I	Johns	JCS	-	(1954)	198

$C_{11}H_{14}O_7$	$C_{11}H_{14}S$	$C_{11}H_{15}BrO_7$	$C_{11}H_{15}BrO_7$	$C_{11}H_{15}Cl$	$C_{11}H_{15}Cl_3OSi$	$C_{11}H_{15}N$	$C_{11}H_{15}N$	$C_{11}H_{15}N$	$C_{11}H_{15}NO$	$C_{11}H_{15}NO$	$C_{11}H_{15}NO$		
β -Carbomethoxy- β -carbethoxymethyl- α -oxybutyrolactone	3,3-Dimethylallyl phenyl sulfide	2,3,4-Tri-O-acetyl-1-bromo-1-deoxy- α -D-xylopyranose	2,3,4-Tri-O-acetyl-1-bromo-1-deoxy- β -L-arabopyranose	α -Phenylneopentyl chloride	Trichlorosilylpentyl phenyl ether	γ -Cyclooctatetraenylpropylamine	2-Pentylideneaniline	Phenyl-t-butyl ketimine	o-Tolyl-n-propyl ketimine	2-Benzylideneamino-1-butanol	3-Cyanocamphor	Isovaleraniolide	N-(n-Propyl)phenylacetamide
-	-	-	-	3.41-14.33 μ -	-	2-16 μ	-	-	-	-	-	-	1500-3600 3 μ
L	-	S	S	-	-	L	-	-	-	L	S	-	S, Sol Sol
Group freq, Struct	Ident, Struct, Freq	Band freq, I	Band freq, I	Table	Inductive effect	Spec, Group assign	Freq	Group freq	Group freq	Group freq, Struct	Group freq	Ident	Spec, Assign Freq
Little	Delamare	Barker	Barker	Brewster	Josien	Cope	Elderfield	Pickard	Pickard	Golberg	Chase	Snyder	Richards Russell
JCS - (1954) 2636	JCS - (1953) 3555	JCS - (1954) 3468	JCS - (1954) 3468	JACS 76 (1954) 6368	CPR 249 (1959) 826	JACS 75 (1953) 3215	JACS 76 (1954) 1887	JACS 76 (1954) 5169	JACS 76 (1954) 5169	JACS 75 (1953) 6260	JCS - (1953) 3518	JACS 76 (1954) 1893	JCS - (1947) 1248 SA 8 (1956) 138

$C_{11}H_{15}NO$	$C_{11}H_{15}NO.HCl$	$C_{11}H_{15}NO_2$	$C_{11}H_{15}NO_2$	$C_{11}H_{15}NO_2$	$C_{11}H_{15}NO_2$	$C_{11}H_{15}NO_2$	$C_{11}H_{15}NO_3$	$C_{11}H_{15}NO_3$	$C_{11}H_{15}NO_3$	$C_{11}H_{15}NO_4$	$C_{11}H_{15}O_3$	
N,3,4-Trimethylacetamide	N-Benzylmorpholine hydrochloride	N-Benzoyloxy-diethyl-methylamine	6,7-Dimethoxy-1,2,3,4-tetrahydroisoquinoline	N-Ethyl-N-phenylurethan	2-p-Methoxyphenyl-3-methylloxazolidine	N-Methyl-N-p-methoxybenzyl-2-aminoethanol-1	4-Acetyl-2-carbethoxy-3,5-dimethylpyrrole	t-Butyl N-phenyl-percarbamate	Ethyl α -amino- β -hydroxy- β -phenylpropionate	Ethyl 2-methyl-6-ethoxy-micotinate	2,3-Dicarbethoxy-5-methylpyrrole	3-(2',3'-Dimethoxyphenyl)propanol
-	600-1400 S	-	-	2-15 μ Sol	1080-1190 -	-	500-4000 Sol,S	5-15 μ Sol	-	2-16 μ Sol	500-4000 S	1500-5000 Sol
JACS 75 (1953) 5744	JOS - (1958) 52	JACS 80 (1958) 5954	JACS 77 (1955) 1248	AC 25 (1953) 844 SA 13 (1958) 236	JACS 73 (1951) 5662	JACS 73 (1953) 68	JOS - (1958) 971	JCS - (1953) 1808 PRS 224 (1954) 176	AC 27 (1955) 1027	JOC 76 (1954) 183	JCS - (1958) 971	AC 29 (1957) 904
Fuson	Stone	Freeman	Wildman	Pristera Thompson	Bergmann	Bergmann	Eisner	Davies Minkoff	Potts	Ramirez	Eisner	Briggs
Comparison	Freq, Assign	Freq	Band freq	Spec, Group freq Freq, I	Band freq	Group freq, H bond	Spec, Freq, Struct, Assign	Ident Spec	Freq	Spec, Band freq	Spec, Freq, Assign	Group freq

$C_{11}H_{15}O_3B$	n-Pentyl-o-phenylene borate	6-14 μ	L,S	Struct, Assign	Blau	JCS	-	(1960)	380
$C_{11}H_{15}O_4P$	Diethylbenzoyl-phosphite	-	-	Freq, Assign	Ketelaar	RTC	78	(1959)	190
$C_{11}H_{16}$	n-Amylbenzene	7-15 μ 2-15 μ	Sol L	Spec, Analysis Spec, Struct	Pines Hawkes	JACS SA	73 16	(1951) (1960)	4343 633
$C_{11}H_{16}$	t-Amylbenzene	1050-1800 7-15 μ 2-15 μ	- Sol L	Spec Spec Spec, Struct	Barnes Pines Hawkes	IEC JACS SA	15 73 16	(1943) (1951) (1960)	659 4343 633
$C_{11}H_{16}$	m-t-Butyltoluene	- - 2-15 μ 700-1000	Sol - L S,Sol	Analysis Freq Spec Out of plane CH deformation study Analysis	Hibbard Serijan Schlatter Bellamy Zook	AC JACS JACS JCS JACS	21 71 75 - 77	(1949) (1949) (1953) (1955) (1955)	486 873 361 2818 2501
$C_{11}H_{16}$	o-t-Butyltoluene	- 2-15 μ	- L	Freq Spec	Serijan Schlatter	JACS JACS	71 75	(1949) (1953)	873 361
$C_{11}H_{16}$	p-t-Butyltoluene	- - - 2-15 μ -	Sol - - L -	Analysis Freq Band freq Spec Analysis	Hibbard Serijan Bomstein Schlatter Zook	AC JACS AC JACS JACS	21 71 25 75 77	(1949) (1949) (1953) (1953) (1955)	486 873 512 361 2501
$C_{11}H_{16}$	1,3-Dimethyl-5-isopropylbenzene	- 700-1000	Sol S,Sol	Spec, Freq assign Out of plane CH deformation study	McCauley Bellamy	JACS JCS	76 -	(1954) (1955)	2354 2818
$C_{11}H_{16}$	6-Ethyl-6-n-propylfulvene	850-4000	Sol,L	Spec, Freq, Assign	Day	JOC	23	(1958)	2039
$C_{11}H_{16}$	1-Methyl-3,5-diethylbenzene	700-1000 15-35 μ	S,Sol S	Out of plane CH deformation study Spec, Struct	Bellamy Bentley	JCS SA	- 15	(1955) (1959)	2818 165

$C_{11}H_{16}$	2-Methyl-3-phenylbutane	7-15 μ Sol	Spec, Analysis Table Ident Spec, Struct	Pines Brewster Buswell Hawkes	JACS 73 (1951) 4343
		3.42-14.35 μ -			JACS 76 (1954) 6368
$C_{11}H_{16}$	Neopentylbenzene	2-15 μ L	Table	Brewster	JACS 77 (1955) 2766
		3.43-14.35 μ -			SA 16 (1960) 633
$C_{11}H_{16}$	Pentamethylbenzene	-	Thermo Spec Freq, I Spec Group Analysis Vibration study	Kassel Richards Cole Cannon Hastings Randle	JACS 76 (1954) 6368
		700-3100 S, L			JCP 4 (1936) 276
		9-14 μ Sol			PRS 195 (1948) 1
		640-2000 S			TFS 46 (1950) 103
		900-1050 -			SA 4 (1951) 373
$C_{11}H_{16}$	1-Phenyl-2-methylbutane	-	Spec, Analysis	Pines	AC 24 (1952) 612
		7-15 μ Sol			JCS - (1955) 3497
$C_{11}H_{16}$	2-Phenylpentane	7-15 μ Sol	Spec, Analysis Analysis Spec, Analysis Analysis Ident Analysis Freq Spec	Pines Pines Cram Cram Burwell Burwell Potts Hawkes	JACS 73 (1951) 4343
		-			JACS 73 (1951) 4483
		2-15 μ -			JACS 74 (1952) 2152
		-			JACS 75 (1953) 332
		-			JACS 76 (1954) 908
		-			JACS 77 (1955) 2766
		2-15 μ L			AC 27 (1955) 1027
$C_{11}H_{16}$	3-Phenylpentane	7-15 μ Sol	Spec, Analysis Analysis Spec, Analysis Spec Analysis Spec, Struct	Pines Pines Cram Lenneman Burwell Hawkes	SA 16 (1960) 633
		-			JACS 73 (1951) 4343
		2-15 μ -			JACS 73 (1951) 4483
		2-15.5 μ L			JACS 74 (1952) 2152
		2-15 μ L			JOC 19 (1954) 463
$C_{11}H_{16}$	1,3,5-Trimethyl-2-ethylbenzene	700-1800 L	Spec	Bryant	JACS 77 (1955) 2766
		-			SA 16 (1960) 633
$C_{11}H_{16}$	1,4,5-Trimethyl-2-ethylbenzene	700-1800 L	Spec	Bryant	JOS - (1949) 2389
					JOS - (1949) 2389

$C_{11}H_{16}BrNO$	2-Bromo-3-methyl-4-amino-6-t-butylphenol	2.82-6.92 μ Sol	I, Group freq	Albert	JACS 76 (1954) 4979
$C_{11}H_{16}Br_2O$	cis-2,4-Dibromo-spiro [5:5] undecan-3-one	- -	Band freq	Burnell	JCS - (1954) 3486
$C_{11}H_{16}ClNO$	2-Chloro-3-methyl-4-amino-6-t-butylphenol	2.78-6.92 μ Sol	I, Group freq	Albert	JACS 76 (1954) 4979
$C_{11}H_{16}N_2$	1-Benzylpiperazine	3.38-3.60 μ S	Freq	Wright	JOC 24 (1959) 1362
$C_{11}H_{16}N_2$	1-Methylcyclohexyl-(methyl)malononitrile	- -	Group freq, I	Westfahl	JACS 77 (1955) 936
$C_{11}H_{16}N_2OS \cdot 2HBr$	1-(2-Pyridylthio)-4-dimethylamino-2-butanone dihydrobromide	- Sol	Group freq	Djerassi	JACS 76 (1954) 4470
$C_{11}H_{16}N_2O_2$	N-Benzyl-N-isobutyramido-hydroxylamine	- -	Freq, I	Gingras	JCS - (1954) 3508
$C_{11}H_{16}N_2O_2$	Ethyl dimethylamino-N-phenylurethan	1000-3500 Sol	Spec, Assign	Katritzky	JCS - (1960) 676
$C_{11}H_{16}N_2O_2$	Pilocarpine	2-12 μ - Sol	Spec Quant, Anal	Loofbourov Marsh	RMP 12 (1940) 267 AC 27 (1955) 636
$C_{11}H_{16}N_2O_2S$	5-Ethyl-5-(1-methylbutenyl-3)-2-thio-barbituric acid	- -	Struct	Wood	JACS 75 (1953) 5511
$C_{11}H_{16}N_2O_3$	Delvinal	2-16 μ Sol	Spec, Freq	Umberger	AC 24 (1952) 1309
$C_{11}H_{16}N_2O_3$	Sandoptal	2-16 μ Sol	Spec, Freq	Umberger	AC 24 (1952) 1309
$C_{11}H_{16}N_2O_4$	N-Bis-(β -hydroxyethyl)-p-nitrobenzylamine	- -	Spec	Chi zhov	ZOK 30 (1960) 3695

$C_{11}H_{16}N_2O_4^S$	5-Ethyl-5-(1-methyl- β -carboxypropyl)-2-thio-barbituric acid	-	-	Ident	Wood	JACS 75 (1953)	5511
$C_{11}H_{16}N_2O_5$	5-Ethyl-5-(1-methyl- β -carboxypropyl)-2-barbituric acid	-	-	Ident, Struct	Wood	JACS 75 (1953)	5511
$C_{11}H_{16}N_2O_7$	Dimethyl-n-propylamine picrate	-	-	Ident	Wiesner	JACS 75 (1953)	6348
$C_{11}H_{16}O$	n-Butyl benzyl ether	-	-	Freq assign Spec	Murray Barnes	JCP 9 (1941) IEC 15 (1943)	129 659
$C_{11}H_{16}O$	n-Butyl o-tolyl ether	1050-1700	-	Spec	Barnes	IEC 15 (1943)	659
$C_{11}H_{16}O$	4-s-Butyl-1-hydroxy-2-methylbenzene	900-1030	Sol	Freq	Puttnam	JCS - (1960)	2934
$C_{11}H_{16}O$	1-n-Butyl-4-methoxybenzene	900-1030	Sol	Freq	Puttnam	JCS - (1960)	2934
$C_{11}H_{16}O$	1-s-Butyl-4-methoxybenzene	900-1030	Sol	Freq	Puttnam	JCS - (1960)	2934
$C_{11}H_{16}O$	o-n-Butylmethoxybenzene	900-1030	Sol	Freq	Puttnam	JCS - (1960)	2934
$C_{11}H_{16}O$	o-s-Butylmethoxybenzene	900-1030	Sol	Freq	Puttnam	JCS - (1960)	2934
$C_{11}H_{16}O$	2-s-Butyl-4-methylphenol	900-1030	Sol	Freq	Puttnam	JCS - (1960)	2934
$C_{11}H_{16}O$	2-s-Butyl-4-methylphenol	900-1030	Sol	Freq	Puttnam	JCS - (1960)	2934
$C_{11}H_{16}O$	3-s-Butyl-4-methylphenol	3500-3800 650-1400	Sol Sol	Freq Spec	Puttnam Puttnam Shrewsbury	JCS - (1960) JCS - (1960) SA 16 (1960)	2934 5100 1294
$C_{11}H_{16}O$	2-s-Butyl-5-methylphenol	650-1400	Sol	Spec	Shrewsbury	SA 16 (1960)	1294
$C_{11}H_{16}O$	3-s-Butyl-4-methylphenol	650-1400	Sol	Spec	Shrewsbury	SA 16 (1960)	1294

$C_{11}H_{16}O$	2-t-Butyl-4-methylphenol	- 3 μ	- L,S, S,Sol	Freq H bond	Coggeshall Sears	JACS 69 (1947) 1620 JACS 71 (1949) 4110
		2.7-3.2 μ	Sol	H bond	Coggeshall	JACS 73 (1951) 5414
		2.5-3.4 μ	S,Sol	Band freq	Amelang	JACS 75 (1953) 947
		-	-	I	Brown	JCP 24 (1956) 1281
		2.78 μ	Sol	I	Hughes	JCP 24 (1956) 489
		-	Sol	Spec	Goddu	JACS 82 (1960) 4533
		3500-3800	Sol	Freq, Hammett const	Puttnam	JCS - (1960) 5100
		650-1400	Sol	Spec	Shrewsbury	SA 16 (1960) 1294
$C_{11}H_{16}O$	t-Butylphenylcarbinol	665-5000 2.90-11.17 μ	L,S Sol	Freq Table	Zeiss Brwster	JACS 75 (1953) 897 JACS 76 (1954) 6368
$C_{11}H_{16}O$	t-Butyl p-tolyl ether	3 μ	Sol	Spec	McKinley	JACS 69 (1947) 1624
$C_{11}H_{16}O$	α , α -Diethylbenzyl alcohol	-	-	Assign	Michinori	BCSJ 32 (1959) 950
$C_{11}H_{16}O$	2,5-Dimethyl-4-methyl phenol	650-1400	Sol	Spec	Shrewsbury	SA 16 (1960) 1294
$C_{11}H_{16}O$	2,6-Diethyl-4-methyl-phenol	650-1400	Sol	Spec	Shrewsbury	SA 16 (1960) 1294
$C_{11}H_{16}O$	4-(1,1-Dimethylpropyl) phenol	1050-1800 3100-3700 3 μ	- S,Sol S,L, Sol	Freq, Spec Freq Spec, Assign H bond	Barnes Coggeshall Richards Sears	IEC 15 (1943) 659 JACS 69 (1947) 1620 JCS - (1947) 1260 JACS 71 (1949) 4110
		2.84 μ	Sol	Analysis	Simard	AC 23 (1951) 1384
		-	-	Band freq	Bomstein	AC 25 (1953) 512
		3570-3700	Sol	Freq, I	Flynn	AJC 12 (1959) 575
$C_{11}H_{16}O$	4-Ethyl-2-isopropylphenol	3500-3800 900-1030	Sol Sol	Freq Freq	Puttnam Puttnam	JCS - (1960) 5100 JCS - (1960) 2934
$C_{11}H_{16}O$	3-Ethyl-4,5,6,7-tetrahydroindanone-1	-	-	Group freq	Hamlet	JCS - (1951) 2652

$C_{11}H_{16}O$	cis-Jasmone	2.8-14.8 μ L - L,S	Spec, Freq Ident	Crombie Harper	JCS - (1952) 869 JCS - (1955) 1512
$C_{11}H_{16}O$	trans-Jasmone	2.8-14.8 μ L	Spec, Freq	Crombie	JCS - (1952) 869
$C_{11}H_{16}O$	trans-2-Keto-10-methyl- Δ^3 -octahydronaphthalene	2-12 μ Sol	Band freq	Woodward	JACS 74 (1952) 4223
$C_{11}H_{16}O$	2-Methyl-6-s-butylphenol	650-1400 Sol	Spec	Shrewsbury	SA 16 (1960) 1294
$C_{11}H_{16}O$	3-Methyl-4-s-butylphenol	650-1400 Sol	Spec	Shrewsbury	SA 16 (1960) 1294
$C_{11}H_{16}O$	3-Methyl-5-s-butylphenol	650-1400 Sol	Spec	Shrewsbury	SA 16 (1960) 1294
$C_{11}H_{16}O$	2-Methyl-4-t-butylphenol	- 650-1400 Sol	Spec Spec	Goddu Shrewsbury	JACS 82 (1960) 4533 JACS 82 (1960) 1294
$C_{11}H_{16}O$	3-Methyl-6-t-butylphenol	- 650-1400 Sol	Spec Spec Spec	Goggeshall Goddu Shrewsbury	JACS 69 (1947) 1620 JACS 82 (1960) 4533 SA 16 (1960) 1294
$C_{11}H_{16}O$	1-Methyl-4-isopropyl-tricyclo [4.1.0 ¹ ,6.0 ² ,4]heptanone-5	- L	Group freq	Eastman	JACS 76 (1954) 4115
$C_{11}H_{16}O$	3-Methyl-2-oxo-1,2,3,4,5,6,7,8-octahydronaphthalene	- L	Band freq	Logan	JACS 76 (1954) 4127
$C_{11}H_{16}O$	3-Methyl-2-oxo-2,3,4,5,6,7,8,10-octahydronaphthalene	- L	Band freq	Logan	JACS 76 (1954) 4127
$C_{11}H_{16}O$	trans- Δ^1 -octahydro-9-methyl-3-oxonaphthalene	650-900 Sol	Spec	Henbest	JCS - (1957) 997
$C_{11}H_{16}O$	2,3,4,5,6-Pentamethylphenol	650-1400 Sol	Spec	Shrewsbury	SA 16 (1960) 1294

$C_{11}H_{16}O$	D-erythro-2-Phenyl-3-pentanol	2-15 μ	-	Spec, Analysis	Cram	JACS 74 (1952)	2159
$C_{11}H_{16}O$	D-threo-2-phenyl-3-pentanol	2-15 μ	-	Spec, Analysis	Cram	JACS 74 (1952)	2159
$C_{11}H_{16}O$	D (d)-erythro-2-phenyl-pentanol-3	-	L,Sol	Analysis	Cram	JACS 75 (1953)	332
$C_{11}H_{16}O$	D-erythro-3-phenyl-2-pentanol	2-15 μ	-	Spec, Analysis	Cram	JACS 74 (1952)	2159
$C_{11}H_{16}O$	D-threo-3-phenyl-2-pentanol	2-15 μ	-	Spec, Analysis	Cram	JACS 74 (1952)	2159
$C_{11}H_{16}O$	L (l)-erythro-2-phenyl-pentanol-3	-	L,Sol	Analysis	Cram	JACS 75 (1953)	332
$C_{11}H_{16}O$	L (d)-threo-2-phenyl-pentanol-3	-	L,Sol	Analysis	Cram	JACS 75 (1953)	332
$C_{11}H_{16}O$	L (l)-erythro-3-phenyl-pentanol-2	-	L,Sol	Analysis	Cram	JACS 75 (1953)	332
$C_{11}H_{16}O$	L (l)-threo-3-phenyl-pentanol-2	-	L,Sol	Analysis	Cram	JACS 75 (1953)	332
$C_{11}H_{16}O_2$	5-n-Amylcatechol	3500-3650	Sol	Spec, Struct	Adams	JACS 62 (1940)	732
$C_{11}H_{16}O_2$	5-n-Amylresorcinol	3500-3650	Sol	Spec, Struct	Adams	JACS 62 (1940)	732
$C_{11}H_{16}O_2$	4-t-Butylguaiacol	600-1400	Sol	Spec, Analysis	Rosenwald	JACS 74 (1952)	4602
$C_{11}H_{16}O_2$	5-t-Butylguaiacol	600-1400	Sol	Spec, Analysis	Rosenwald	JACS 74 (1952)	4602
$C_{11}H_{16}O_2$	6-t-Butylguaiacol	600-1400	Sol	Spec, Analysis	Rosenwald	JACS 74 (1952)	4602

$C_{11}H_{16}O_2$	2-(3,3-Dimethylallyl)-1,3-cyclohexanedione	1350-1750	Sol	Spec, Assign	Ananchenko	IANs - (1960)	1644
$C_{11}H_{16}O_2$	trans-1-Hydroxy-2-keto-10-methyl- Δ^3 -octahydronaphthalene	2-12/ μ	Sol	Band freq	Woodward	JACS 74 (1952)	4223
$C_{11}H_{16}O_2$	4-Methoxy-2- <i>t</i> -butylphenol	-	Sol	Spec	Goddu	JACS 82 (1960)	4533
$C_{11}H_{16}O_2$	α -2-Methyl-3-phenyl-1,3-butanediol	-	-	Comparison	Zimmerman	JACS 76 (1954)	2294
$C_{11}H_{16}O_2$	β -2-Methyl-3-phenyl-1,3-butanediol	-	L	Comparison	Zimmerman	JACS 76 (1954)	2294
$C_{11}H_{16}O_2$	2-Methyl-4-phenyl-1,4-butanediol-A	-	Sol	Freq	Ramirez	JACS 77 (1955)	3768
$C_{11}H_{16}O_2$	α -(4-Methyl-1-cyclohexenyl)vinylacetic acid	-	S	Band freq	Dreiding	JACS 75 (1953)	3717
$C_{11}H_{16}O_2$	γ -(4-Methyl-1-cyclohexenyl)vinylacetic acid	-	S	Band freq	Dreiding	JACS 75 (1953)	3717
$C_{11}H_{16}O_2$	3,3,5-Trimethylcyclohexa-1,5-diene-carboxylic acid methyl ester	-	L	Group freq, I	Brande	JCS - (1954)	607
$C_{11}H_{16}O_2$	3,5,5-Trimethylcyclohexa-1,3-diene-carboxylic acid methyl ester	-	L	Group freq, I	Brande	JCS - (1954)	607
$C_{11}H_{16}O_2S$	2-Ethynyl-3-methoxycyclohexane-1-spiro-2'-(1',3'-oxathiolan)	-	S	Band freq	Jaeger	JCS - (1955)	646
$C_{11}H_{16}O_3$	Angustione	3.3-13.6/ μ - 1500-2700	L,Sol	Band freq, I H bond, Assign	Birch Chan	JCS - (1951) JCS - (1956)	3026 3495

$C_{11}H_{16}O_3$	n-Butyl β -(2'-furyl) propionate	800-1700 Sol 800-1500 Sol	Freq, Assign Assign	Katritzky Katritzky Katritzky	JOS SA SA	- (1959) 16 (1960) 16 (1960)	657 954 964
$C_{11}H_{16}O_3$	trans-10-Carboxy-2-decalone	3.34-10.63 μ Sol	I	Dreiding	JACS	77 (1955)	411
$C_{11}H_{16}O_3$	Dimethyl(2,3-dimethoxyphenyl)carbinol	- Sol	Freq	Edwards	JOC	20 (1955)	847
$C_{11}H_{16}O_3$	1-Ethoxy-1-(4-hydroxy-3-methoxyphenyl)ethane	600-4000 S	Spec, Freq	Herzert	JOC	25 (1960)	405
$C_{11}H_{16}O_3$	1-Methoxy-1-(3,4-dimethoxyphenyl)ethane	600-4000 S	Spec, Freq	Herzert	JOC	25 (1960)	405
$C_{11}H_{16}O_3S$	n-Butyl p-toluenesulfonate	1000-1500 Sol	Spec Band freq	Schreiber Bomstein	AC AC	21 (1949) 25 (1953)	1168 512
$C_{11}H_{16}O_4$	3,5-Diethoxy-4-methoxyphenol	700-5000 S	Group freq	Briggs	AC	29 (1957)	904
$C_{11}H_{16}O_4$	3,5-Diethyl-6-ethoxy-2,4-pyronone	- -	Group freq	Reid	JACS	25 (1953)	1655
$C_{11}H_{16}O_4$	Ethyl 5-ethyl-2,5-dihydro-4,5-dimethyl-2-oxofuran-3-carboxylate	1000-1800 Sol	Spec, Freq	Lacey	JOS	- (1960)	3153
$C_{11}H_{16}O_4$	Ethyl 2-vinylcyclopropane-1,1-dicarboxylate	- -	Group freq	Kierstead	JOS	- (1952)	3610
$C_{11}H_{16}O_4$	1,1,3,3-Tetraacetylpropane	2.5-6.5 μ Sol	Freq assign	Martin	JACS	81 (1959)	130
$C_{11}H_{16}O_4$	2,3,4-Trimethoxybenzyl methyl ether	943-2925 Sol	Ident, Struct	Gutsche	JACS	76 (1954)	1776

$C_{11}H_{16}O_5$	Diethyl cyclopentanone -2,5-dicarboxylate	-	L	Band freq	Leonard	JACS 74 (1952)	4070
$C_{11}H_{16}O_6$	γ -Carboxy- γ -isopropenyl- pimelic acid	700-4000	S	Spec, Struct	Frank	JACS 71 (1949)	1387
$C_{11}H_{16}O_8$	α -2,3,4-Triacetyl-d- xylose	6800-7200 7000	Sol - S	Spec Absorption band Band freq, I	Hendricks Wulf Barker	JACS 58 (1936) JCP 6 (1938) JCS - (1954)	1997 702 3468
$C_{11}H_{17}BrO$	1-Bromomethyldihydrour- bellulone	-	L	Group freq	Eastman	JACS 76 (1954)	4115
$C_{11}H_{17}ClO_3$	cis-2-Methyl-2-carbethoxy- cyclopentane-1-acetyl chloride	-	-	Group freq	Conroy	JACS 74 (1952)	3046
$C_{11}H_{17}N$	Benzyl-diethylamine	3.38-3.60 μ S		Freq	Wright	JOC 24 (1959)	1362
$C_{11}H_{17}N$	N,N-Diethyl-p-toluidine	2800-3000	L	Group study	Braunholtz	JCS - (1958)	2780
$C_{11}H_{17}N$	2,6-Diisopropylpyridine	2-15 μ	L	Freq	Podall	AC 29 (1957)	1423
$C_{11}H_{17}N$	5,5-Dimethyl-3-isopropyl- lidine-2-vinylpyrroline	6.41 μ	Sol	Freq	Meyers	JOC 24 (1959)	1233
$C_{11}H_{17}N$	2-Ethyl-6-t-butyl- pyridine	2-15 μ	L	Freq	Podall	AC 29 (1957)	1423
$C_{11}H_{17}N$	N-Isoamylamine	1-12 μ	L	Spec	Bell	JACS 47 (1925)	2192
		0.8-2.8 μ	L	Spec	Ellis	JACS 49 (1927)	347
$C_{11}H_{17}N$	N-(2-Pentyl)aniline	-	-	Band freq	Elderfield	JACS 76 (1954)	1887
$C_{11}H_{17}NO$	1-Phenyl-2-dimethyl- aminopropanol	2.5-4 μ	Sol	Spec	Kanzawa	BCSJ 29 (1956)	398
$C_{11}H_{17}NO$	N-n-Propyl-N-phenyl-2- aminoethanol-1	-	S, Sol	Group freq	Barter	JCS - (1955)	669

Chemical	Wavenumber	State	Frequency	Assignment	Author	Year	Page	
C ₁₁ H ₁₇ NO ₂	1030-3600	-	Group freq	H bond	Bergmann	73 (1951)	5662	
		S, Sol	Group freq		Bergmann	75 (1953)	68	
			Group freq		Baxter	-	(1955)	669
Anhydroecgonine ethyl ester	5.5-6.5 μ	Sol	Spec, Struct, Freq		Findlay	75 (1953)	1033	
			Band freq		Bergmann	73 (1951)	5662	
N-(p-Methoxybenzyl)-N-methyl-2-aminoethanol-1	1070-3450	-	Band freq		Gil	74 (1952)	1346	
			Group freq		Baxter	-	(1955)	669
N,N-Diethyltoluene-p-sulfonamide		S, Sol	Group freq		Baxter	-	(1955)	669
2-Carbethoxy-3,4-dimethyl-5-methoxymethylpyrrole	4000-500	S	Spec, Freq, Struct, Assign		Eisner	-	(1958)	971
1-Isopropyl-4,4-diethyl-2,3,5-pyrrolidinetrione		-	Spec		Skinner	72 (1950)	5569	
Mescaline	2-15 μ	Sol	Group freq		Briggs	29 (1957)	904	
Diethyl 1-methyl-2-cyanoethylmalonate	2-15 μ	L	Spec, Freq		Abramovitch	36 (1958)	151	
Deca-2,4,6-trienal semicarbazone		-	Band freq, I		Hill	-	(1955)	1770
1-(β , β -Diethoxyethyl)-2-amino-4-cyanopyrrole	2-16 μ	-	Spec		Grob	37 (1954)	1256	
1-Ethyl β -diethylamino-pyrazinoate hydrochloride	1500-2000	S	Spec, Group freq		Solomons	75 (1953)	679	
1-Cyclohexyl-4,4-dicarboximido-2-azetidinone	2-11 μ	S	Spec		Sheehan	73 (1951)	1761	
Diethyl p-tolylphosphate		-	Group freq		Bell	76 (1954)	5185	
Cyclotendeca-1,3-diene	670-3000	-	Spec, Group freq		Fawcett	-	(1954)	2673

$C_{11}H_{18}N_2$	2-Methyl-4-diethylamino-aniline	800-2600	Sol	Struct, Analysis	Whetsel	AC	30 (1958)	1598
$C_{11}H_{18}N_2O_2$	N-Bis-(β -hydroxyethyl)-p-aminobenzylamine	-	-	Spec	Chizhov	ZOK	30 (1960)	3695
$C_{11}H_{18}N_2O_2$	L-Leucyl-L-proline anhydride	700-3300	S	Spec, Band freq	Johnson	JACS	73 (1951)	2947
$C_{11}H_{18}N_2O_3$	Thiopental	2-16 μ	Sol	Spec, Freq Ident	Umberger Cleverley	AC ANA	24 (1952) 85 (1960)	1309 582
$C_{11}H_{18}N_2O_3$	Amytal	2-16 μ 2.5-16 μ	Sol S	Spec, Freq Spec	Umberger Levi	AC AC	24 (1952) 28 (1956)	1309 1591
$C_{11}H_{18}N_2O_3$	Nembutal	2-16 μ 2.5-16 μ	Sol S	Spec, Freq Spec Ident	Umberger Levi Cleverley	AC AC ANA	24 (1952) 28 (1956) 85 (1960)	1309 1591 582
$C_{11}H_{18}N_3$	N-Benzyl-N,N-dimethyl-ammonium acetamidoxime	900-3500	S	Freq	Hollander	JOC	23 (1958)	1112
$C_{11}H_{18}O$	1-Acetylhexahydroindane	-	Sol	Group freq	Coles	JCS	- (1954)	2617
$C_{11}H_{18}O$	1-Acetyl-2,6,6-trimethyl-cyclohexene	1600-1750	Sol	Freq, Spec	Braude	JCS	- (1955)	3766
$C_{11}H_{18}O$	2-Acetyl-1,3,3-trimethyl-cyclohexene	-	-	Group freq	Henbest	JCS	- (1952)	1150
$C_{11}H_{18}O$	Alloocimenesarbinol	2-16 μ	L	Spec	Bain	JACS	74 (1952)	4292
$C_{11}H_{18}O$	3,7-Dimethylnon-2,4-cis-6-trien-8-ol	-	L	Purity test	Oroshnik	JACS	76 (1954)	5719
$C_{11}H_{18}O$	3,7-Dimethylnona-2,4-trans-6-trien-8-ol	2-16 μ	L	Spec	Oroshnik	JACS	76 (1954)	5719
$C_{11}H_{18}O$	Dipentene-7-carbinol	2-16 μ	L	Spec	Bain	JACS	74 (1952)	4292

$C_{11}H_{18}O$	cis-2-keto-10-methyl-decalin	2-12 μ	Sol	Spec	Woodward	JACS 74 (1952)	4223
$C_{11}H_{18}O$	trans-2-keto-10-methyl-decalin	2-12 μ	Sol	Spec	Woodward	JACS 74 (1952)	4223
$C_{11}H_{18}O$	2-Methylbicyclo[5.3.0]-5-decanone	-	-	Band freq	Herz	JACS 76 (1954)	3349
$C_{11}H_{18}O$	9-Methyl-cis-decalone-1	-	Sol	Freq	Jones	JACS 74 (1952)	5648
$C_{11}H_{18}O$	9-Methyl-trans-decalone-1	2-12 μ	Sol	Spec	Ross	JOC 20 (1955)	905
$C_{11}H_{18}O$	3-Methyl-1,2,3,4,5,6,7,8-octahydro-2-naphthol	2-12 μ	Sol	Spec, I	Ross	JOC 20 (1955)	905
$C_{11}H_{18}O$	3-Methyl-2-oxodecahydronaphthalene	-	L	Band freq	Logan	JACS 76 (1954)	4127
$C_{11}H_{18}O$	Nopol	2-16 μ	L	Spec	Bain	JACS 74 (1952)	4292
$C_{11}H_{18}OSi$	Trimethylsilylethyl phenyl ether	-	-	Induction effect	Josien	CPR 249 (1959)	826
$C_{11}H_{18}O_2$	Apoisobornyl acetate	-	-	Analysis	Winstein	JACS 77 (1955)	3054
$C_{11}H_{18}O_2$	exo-Camphenilyl acetate	-	-	Analysis	Winstein	JACS 77 (1955)	3054
$C_{11}H_{18}O_2$	Ethyl 2-(1-cyclohexen-1-yl)propionate	1600-1800	Sol	Spec, Freq, Struct	Dauben	JACS 75 (1953)	3352
$C_{11}H_{18}O_2$	β -Fenchoisocamphoryl acetate	-	-	Analysis	Winstein	JACS 77 (1955)	3054
$C_{11}H_{18}O_2$	Formate (as geranyl formate)	8.1-8.6 μ	Sol	Absorbance	Fenton	AC 31 (1959)	960

$C_{11}H_{18}O_2$	1-Glycolylhexahydroindane	-	Sol	Group freq	Coles	JCS - (1954) 2617
$C_{11}H_{18}O_2$	2-Methyl-4-carbomethoxy-2,3-octadiene	-	S	Band study	Wotiz	JACS 74 (1952) 1860
$C_{11}H_{18}O_2$	Methyl deca-cis-2,cis-4-dienoate	3-15 μ	L	Spec, Assign	Crombie	JCS - (1955) 1007
$C_{11}H_{18}O_2$	Methyl deca-cis-2,trans-4-dienoate	3-15 μ	L	Spec, Assign	Crombie	JCS - (1955) 1007
$C_{11}H_{18}O_2$	Methyl deca-trans-2,cis-4-dienoate	3-15 μ	L	Spec, Assign	Crombie	JCS - (1955) 1007
$C_{11}H_{18}O_2$	Methyl deca-trans-2,trans-4-dienoate	3-15 μ	L	Spec, Assign	Crombie	JCS - (1955) 1007
$C_{11}H_{18}O_2$	Methyl 2-(4-methylcyclohexylidene)propionate	1600-1800	L	Spec, Freq, Struct	Dauben	JACS 75 (1953) 3352
$C_{11}H_{18}O_2$	α -Nopinyl acetate	-	-	Band freq	Winstein	JACS 77 (1955) 3054
$C_{11}H_{18}O_2$	2-Pentylcyclohexane-1,3-dione	1500-1800	Sol	H bond, Spec	Dewilde	SA 12 (1958) 289
$C_{11}H_{18}O_2$	3,3,7,7-Tetramethyl-1,2-cycloheptanedione	-	L,S	Band freq	Leonard	JACS 72 (1950) 5388
$C_{11}H_{18}O_2S_2$	2-Acetyl-3-methoxycyclohexane-1-spiro-2'-(1',3'-dithiolan)	-	S	Band freq	Jaeger	JCS - (1955) 646
$C_{11}H_{18}O_3$	cis-10-Carboxy-2-trans-decalol	2.89-13.85 μ S		I	Dreiding	JACS 77 (1955) 411
$C_{11}H_{18}O_3$	1-Glycolylhexahydroindan-1-ol	-	Sol	Freq	Coles	JCS - (1954) 2617

C ₁₁ H ₁₈ O ₃		Absorption	Author	JACS	Year	Page
5-Methyl-1- α ,6- α -epoxy-perhydro-(4 α , β ,8 α , β)-naphthalene-4 α ,6-diol	-		Beyler	JACS	74 (1952)	1406
Methyl γ -(1-hydroxycyclohexyl)crotonate	Sol	Freq	Dreiding	JACS	75 (1953)	3717
γ -(2-Methyl-1-hydroxycyclohexyl)crotonic acid	S	Band freq	Dreiding	JACS	75 (1953)	3717
γ -(4-Methyl-1-hydroxycyclohexyl)crotonic acid	S	Band freq	Dreiding	JACS	75 (1953)	3717
Methyl α -(1-hydroxycyclohexyl)vinylacetate	-	Band freq	Dreiding	JACS	75 (1953)	3717
2-Acetyl-3-methoxycyclohexane-1-spiro-2'-(1',3'-oxathiolan)	S	Band freq	Jaeger	JCS	- (1955)	646
α -Carbethoxy-d-ethyl- γ -isocapro lactone	2-16 μ L	Spec, Band freq	Skinner	JACS	73 (1951)	3321
1,3-Dibutyropyropene	-	Freq	Smith	JACS	73 (1951)	5282
3,3-Dibutyropyropene	-	Freq	Smith	JACS	73 (1951)	5282
Dimethyl dl-ponate	1600-4000 Sol	Spec, Ident	Francis	BSCF	- (1959)	1606
1-Methyl-trans-1,2-cyclohexanediacetic acid	-	Ident, Spec	Riniker	JACS	76 (1954)	313
α , α -Diacetoxydiisopropyl ketone	-	Group freq	Murr	JACS	77 (1955)	4430
1,2,3,4-Di-O-isopropylidene L-arabinopyranose	2-15 μ S	Spec	Tipson	JRNB	62 (1959)	257

$C_{11}H_{18}O_5$	1,2,3,4-Di-O-isopropylidene-D-xylofuranose	2-15 μ	S	Spec	Tipson	JRNB 62 (1959)	257
$C_{11}H_{18}O_6$	Di-O-methyl-mono-O-isopropylidene-D-mannono- δ -lactone	1700-1800	S	Freq	Barker	CIL - (1958)	658
$C_{11}H_{18}O_6$	Di-O-methyl-mono-O-isopropylidene-D-mannono- γ -lactone	1700-1800	S	Freq	Barker	CIL - (1958)	658
$C_{11}H_{18}O_6$	Monoethyl jaconecate	2-15 μ	S, L	Spec	Bradbury	AJC 9 (1956)	258
$C_{11}H_{18}Si$	n-Amylphenylsilane	-	L, Sol	Group freq, I	Harvey	JACS 76 (1954)	4555
$C_{11}H_{19}BrO$	2-Bromocyclohexanone	-	Sol	IR shifts	Leonard	JACS 80 (1958)	6039
$C_{11}H_{19}N$	β -sec-Butylidene-5-ethyl-5-methylpyrrolone	6.35 μ	Sol	Freq	Meyers	JOC 24 (1959)	1233
$C_{11}H_{19}N$	1-Piperidino-1-cyclohexene	-	-	Spec	Opitz	A 623 (1959)	112
$C_{11}H_{19}NO$	β -N,N-Dimethylaminoethyl- β -keto-6-methylcyclohexene	-	-	Group freq	Stork	JACS 75 (1953)	3197
$C_{11}H_{19}NO$	β -N,N-Dimethylaminoethyl-2-methyl-5-ketocyclohexene	-	-	Purity determination	Stork	JACS 75 (1953)	3197
$C_{11}H_{19}NO$	Homogeranamide	700-1350	S	Spec, Freq, Struct	Barnard	JCS - (1950)	915
$C_{11}H_{19}NO$	Isohomogeranamide	700-1350	S, L	Spec, Freq, Struct	Barnard	JCS - (1950)	915
$C_{11}H_{19}NO_2$	Hydroecgonidine ethyl ester	5.5-6.5 μ	Sol	Spec, Freq, Struct	Findlay	JACS 75 (1953)	1033

$C_{11}H_{19}NO_3S$	2-(7-Carboxyheptyl)-4-thiazolidone	-	Sol	Group freq	Pennington	JACS 75 (1953)	109					
$C_{11}H_{19}NO_3S$	2-(6-Carboxyhexyl)-4-thiazolidone methyl ester	-	Sol	Freq	Pennington	JACS 75 (1953)	109					
$C_{11}H_{19}NO_3S$	2-(4-Carboxypentyl)-4-thiazolidone ethyl ester	-	Sol	Freq	Pennington	JACS 75 (1953)	109					
$C_{11}H_{19}NO_3S$	2-Methyl-2-(5-Carboxypentyl)-4-thiazolidone methyl ester	-	Sol	Freq	Pennington	JACS 75 (1953)	109					
$C_{11}H_{19}NO_4P$	Dimethyl m-trimethylamino (protonated)phenylphosphate	-	-	Freq, Assing	Ketelaar	RTC 78 (1959)	190					
$C_{11}H_{19}NO_4P$	Dimethyl p-trimethylamino (protonated) phenylphosphate	-	-	Freq, Assing	Ketelaar	RTC 78 (1959)	190					
$C_{11}H_{19}NSi$	Trimethyl(m-dimethyl-aminophenyl)silane	-	-	Ident, Struct	Gillman	JACS 76 (1954)	3219					
$C_{11}H_{20}$	trans-Cyclohexene	670-3000	-	Spec	Faw cett	JCS - (1954)	2673					
$C_{11}H_{20}$	cis-9-Methyldecalin	600-4000	L	Spec	Dauben	JACS 76 (1954)	6384					
$C_{11}H_{20}$	trans-9-Methyldecalin	600-4000	L	Spec	Dauben	JACS 76 (1954)	6384					
$C_{11}H_{20}$	Methyldihydronorbornene	700-1700	L	Spec, Ext coeff, Iso	Bateman	JCS - (1950)	3045					
$C_{11}H_{20}ClN_5$	2,4-Di(n-butyl)amino-6-chloro-1,3,5-triazine	2-16 μ	S	Spec, Struct	Padgett	JACS 80 (1958)	803					
$C_{11}H_{20}ClN_5$	2,4-Di(t-butyl)amino-6-chloro-1,3,5-triazine	2-16 μ	S	Spec, Struct	Padgett	JACS 80 (1958)	803					
$C_{11}H_{20}N_4O_2$	Carbo-2-ethylhexoxy-dicyandiamide	-	S	Ident	Kaiser	JOC 17 (1952)	185					

$C_{11}H_{20}O$	Cyclohendecanone	-	Sol	Group study	Leonard	JACS 80 (1958) 6039
		-	Sol	Freq	Burer	HCA 43 (1960) 1487
$C_{11}H_{20}O$	Geranyl methyl ether	700-1700	L	Spec, Ext coeff, Iso	Bateman	JCS - (1950) 3045
$C_{11}H_{20}O$	1-p-Menthene-7-carbinol	-	L	Band freq	Bain	JACS 74 (1952) 4292
		-	-	Analysis	Webb	JACS 75 (1953) 4279
$C_{11}H_{20}O$	Methoxydihydromyrcene	700-1700	L	Spec, Ext coeff, Iso	Bateman	JCS - (1950) 3045
$C_{11}H_{20}O$	cis-10-Methyl-2-cis-decalol	2.6-11 μ	Sol	Spec	Hussey	JACS 75 (1953) 4727
$C_{11}H_{20}O$	trans-10-Methyl-2-cis-decalol	2.6-11 μ	Sol	Spec	Hussey	JACS 75 (1953) 4727
$C_{11}H_{20}O_2$	2,6-Dimethyl-5-heptene-2-yl acetate	-	-	Pyrolysis	Bateman	JCS - (1952) 1714
$C_{11}H_{20}O_2$	2-Ethylhexyl acrylate	-	Sol	Freq	Hampton	AC 21 (1949) 914
		-	Sol	Group freq	Davison	JCS - (1953) 2607
		2-15 μ	L	Spec, Assign	Walton	JACS 79 (1957) 3985
$C_{11}H_{20}O_2$	10-Hendecenoic acid	1150-1800	-	Spec, Freq	Barnes	IEC 15 (1943) 659
		2-16 μ	L	Spec	Shreve	AC 22 (1950) 1498
		0.9-3 μ	Sol	Spec	Holman	AC 28 (1956) 1533
$C_{11}H_{20}O_2$	cis-10-Hydroxymethyl-2-trans-decalol	2.95-12.74 μ S	-	I	Dreiding	JACS 77 (1955) 411
$C_{11}H_{20}O_2$	Methyl trans-2-decenoate	-	L	Freq	Crombie	JCS - (1955) 1007
$C_{11}H_{20}O_2$	Octyl acrylate	2-15 μ	L	Spec, Assign	Walton	JACS 79 (1957) 3985
$C_{11}H_{20}O_2$	3,3,7,7-Tetramethyl-2-hydroxycycloheptanone	-	L,S	Band freq	Leonard	JACS 72 (1950) 5388
$C_{11}H_{20}O_3$	1-Ethoxy-2-carbethoxyhexene-1	2-15 μ	-	Spec, Ident	Bowman	JOC 19 (1954) 1219

$C_{11}H_{20}O_3S$	-	S	Band freq	Jaeger	JCS	-	(1955)	646
2-1'-Hydroxyethyl-3-methoxycyclohexane-1-spiro-2'-(1',3'-oxathiolan)	-	S						
$C_{11}H_{20}O_4$	Diethyl n-butylmalonate	2-15 μ L 1700-1800 S,Sol	Spec, Freq Iso	Abramovitch Abramovitch	CJC CJC	36 37	(1958) (1959)	151 1146
$C_{11}H_{20}O_4$	Diethyl t-butylmalonate	2-15 μ L	Spec, Freq	Abramovitch	CJC	36	(1958)	151
$C_{11}H_{20}O_4$	Diethyl diethylmalonate	2-15 μ Sol 13.52 μ Sol 2-15 μ Sol	Spec Quant anal Spec, Freq	Washburn Washburn Abramovitch	AC AC CJC	27 29 36	(1955) (1957) (1958)	1612 1718 151
$C_{11}H_{20}O_4$	Diethyl pimelate	670-3500 L,S	Spec, Config	Corish	JCS	-	(1958)	927
$C_{11}H_{20}O_4$	Dimethyl azelate	0.9-3 μ Sol 670-3500 L,S	Spec Spec, Config	Holman Corish	AC JCS	28 -	(1956) (1958)	1533 927
$C_{11}H_{21}N$	1-Piperidino-2-ethyl-1-butene	-	Spec	Opitz	A	623	(1959)	112
$C_{11}H_{21}N$	Undecanonitrile	-	Group freq	Kitson	AC	24	(1952)	334
$C_{11}H_{21}NO$	3,3-Dimethyl-1-N-piperidyl-2-butanone	-	Group freq	Leonard	JACS	77	(1955)	3272
$C_{11}H_{21}NO$	1-Morpholinoheptene	-	Spec	Opitz	A	623	(1959)	112
$C_{11}H_{21}NO$	2-Pentamethylene-4,5,5-trimethylloxazolidine	1080-1190 Sol	Freq	Bergmann	JACS	73	(1951)	5662
$C_{11}H_{21}NO_2$	1-Isopropyl-1-azacyclononan-5-ol-6-one	-	Band freq	Leonard	JACS	76	(1954)	3463
$C_{11}H_{21}NO_2$	1-Methyl-1-azacyclohendecan-6-ol-7-one	-	Group freq C=O, OH freq	Leonard Leonard	JACS JACS	76 76	(1954) (1954)	630 5708
$C_{11}H_{21}NO_6$	Methyl 2-acetamido-2-deoxy-4,6-di-O-methyl- β -D-glucopyranoside	-	Group freq, I	Barker	JCS	-	(1954)	171

	Citronellal semicarba- zone	700-1800 S	Spec, Freq, Struct	Barnard	JCS - (1950)	915
$C_{11}H_{21}N_3O$	4-Methyl-1-decene	2-10 μ Sol	Spec	Letsinger	JACS 70 (1948)	3342
$C_{11}H_{22}$	n-Propylcyclooctane	2-16 μ -	Spec	Cope	JACS 74 (1952)	179
$C_{11}H_{22}$	1-Undecene	- - -	Analysis Assign	Hampton Harrah	AC 21 (1949) JCP 33 (1960)	923 298
$C_{11}H_{22}N_6$	N-(1,1,3,3-Tetramethyl) butylmelamine	2-16 μ S	Spec, Struct, Assign	Padgett	JACS 80 (1958)	803
$C_{11}H_{22}O$	Allyl 1-methylheptyl ether	2-10 μ Sol	Spec	Letsinger	JACS 70 (1948)	3342
$C_{11}H_{22}O$	2,4-Dimethyl-4-ethyl- heptan-5-one	- L	Group freq	Streitwieser	JACS 77 (1955)	3921
$C_{11}H_{22}O$	β -n-Naphthyltetrahydro- furan	650-5000 L	Spec	Quilico	TE 1 (1957)	177
$C_{11}H_{22}O$	6-Undecanone	1600-1800 Sol	Group freq	Fuson	JACS 76 (1954)	2526
$C_{11}H_{22}O$	10-Undecene-1-ol	3 μ Sol	Band freq	Oki	BCSJ 32 (1959)	567
$C_{11}H_{22}O_2$	Methyl caprate	- L 1-12 μ Sol 2-16 μ Sol 6.81-13.8 μ L	Peanut oil study Spec, Ext coefficient Group freq Freq, I, Spec	Barr O'Connor Celmer Fowler	PR 79 (1950) JAOC 28 (1951) JACS 74 (1952) JOSA 43 (1953)	416 154 3838 1054
$C_{11}H_{22}O_3$	Diisoamyl carbonate	1-12 μ L	Spec, Assign	Bell	JACS 50 (1928)	2940
$C_{11}H_{22}O_3$	11-Hydroxyundecanoic acid	2.6-3.0 μ Sol	Association	Davies	JCP 6 (1938)	770
$C_{11}H_{22}O_6$	Methyl 2,3,4,6-tetra-O- methyl- β -D-galacto- pyranoside	- S	Freq, I	Barker	JCS - (1954)	3468

$C_{11}H_{22}O_6$	Methyl 2,3,4,6-tetra-O-methyl- β -D-glucopyranoside	-	S	Freq, I	Barker	JCS - (1954)	171
$C_{11}H_{22}O_6$	Methyl tetramethyl- α -D-glucoside	-	S	Spec	Kuhn	AC 22 (1950)	276
$C_{11}H_{22}O_6$	Methyl tetramethyl- α -D-mannoside	8-15 μ	S	Spec Freq, I	Kuhn Barker	AC 22 (1950) JCS - (1954)	276 3468
$C_{11}H_{23}Br$	n-Undecyl bromide	-	L	Mole ratio	Yoshino	CJC 35 (1957)	339
$C_{11}H_{23}ClO_2S$	n-Undecanesulfonyl chloride	-	-	Spec, Assign	Geiseler	ZE 63 (1959)	1140
$C_{11}H_{23}Cl_3OSi$	Trichlorosilyldecyl methyl ether	-	-	Inductive effect	Josien	CPR 249 (1959)	826
$C_{11}H_{23}Cl_3OSi$	Trichlorosilylheptyl butyl ether	-	-	Inductive effect	Josien	CHR 249 (1959)	826
$C_{11}H_{23}Cl_3OSi$	Trichlorosilylnonyl ethyl ether	-	-	Inductive effect	Josien	CPR 249 (1959)	826
$C_{11}H_{23}NO$	cis-2-Aminocycloundecanol	-	Sol	Freq, Assign	Sicher	CCCC 24 (1959)	950
$C_{11}H_{23}NO$	trans-2-Aminocycloundecanol	-	Sol	Freq assign	Sicher	CCCC 24 (1959)	950
$C_{11}H_{23}NO$	2,2-Diisobutylloxazolidine	-	Sol	Group freq	Bergmann	JACS 75 (1953)	358
$C_{11}H_{23}NO$	N-1-Isobutyl- β -methylbutylidenethanolamine	2-15 μ	-	Spec, Struct	Daasch	JACS 73 (1951)	4523
$C_{11}H_{23}NO$	2-Methyl-2-amyl- β -ethylloxazolidine	2-15 μ	-	Spec, Struct	Daasch	JACS 73 (1951)	4523
$C_{11}H_{23}NO$	2,4,5,5-Tetramethyl-2-isobutylloxazolidine	1080-1190	-	Band freq	Bergmann	JACS 73 (1951)	5662

$C_{11}H_{23}NO_2$	11-Aminoundecanoic acid	-	S	Spec	Guinot	CPR 249 (1959)	432
$C_{11}H_{23}NO_2 \cdot H_2O$	11-Aminoundecanoic acid monohydrate	-	S	Spec	Guinot	CPR 249 (1959)	432
$C_{11}H_{23}NO_3$	n-Undecyl nitrate	2-15 μ	Sol	Spec, Struct	Carrington	SA 16 (1960)	1279
$C_{11}H_{24}$	2,4-Dimethyl-4-ethyl-heptane	2-16 μ	L	Spec	Streitwieser	JACS 77 (1955)	3921
$C_{11}H_{24}$	2,2-Dimethylnonane	-	-	Freq Freq	Sutherland Simpson	JCP 15 (1947) PRS A199 (1949)	153 169
$C_{11}H_{24}$	2-Methyldecane	2-15 μ	L	Spec, Struct	Hawkes	SA 16 (1960)	633
$C_{11}H_{24}$	n-Undecane	1.1-1.8 μ 1-16 μ 2.2-14.8 μ 1100-1800	Sol - S -	Spec Vibration anal Spec Spec Freq Freq Mol ext coefficient	Liddel Whitcomb Sears Barnes Kellner Stein Jones	JRNB 11 (1933) JCP 8 (1940) JAP 12 (1941) IEC 15 (1943) TFS 41 (1945) JCP 22 (1954) SA 9 (1957)	599 143 35 659 217 1993 235
$C_{11}H_{24}O$	2,2,4-Trimethyl-3-isopropyl-3-pentanol	1-15 μ	L	H bond, Spec	Smith	JRNB 46 (1951)	145
$C_{11}H_{24}O$	Undecanol-1	3570-3700	Sol	Freq, H bond, I	Flynn	AJC 12 (1959)	575
$C_{11}H_{24}O$	Undecanol-2	665-5000	L	Freq	Zeiss	JACS 75 (1953)	897
$C_{11}H_{24}O$	Undecanol-6	665-5000	L	Freq	Zeiss	JACS 75 (1953)	897
$C_{11}H_{24}O_4$	6-Hydroxy-4-hydroxy-methylhexanal diethyl acetal	-	Sol	Group freq	Marvel	JACS 75 (1953)	1601
$C_{11}H_{24}Si$	Allyl-di-n-butylsilane	2-16 μ	Sol	Freq	Knissley	SA 15 (1959)	651

$C_{11}H_{24}Si$	2-35 μ	L	Spec, Assign	Oshesky	JACS	79 (1957)	2057
Cyclopentamethylene-dipropylsilane							
$C_{11}H_{25}NO$	1110-3450	- Sol	Band freq Group freq, H bond	Bergmann Bergmann	JACS JACS	73 (1951) 75 (1953)	5662 68
$C_{11}H_{26}OSi$	-	-	Inductive effect	Josien	CPR	249 (1959)	826
$C_{11}H_{26}OSi$	-	-	Inductive effect	Josien	CPR	249 (1959)	826
$C_{11}H_{26}OSi$	-	-	Inductive effect	Josien	CPR	249 (1959)	826
$C_{11}H_{26}Si$	-	-	Band freq	George	JACS	77 (1955)	1677
$C_{11}H_{27}N_2OPS_2$	600-1050	Sol	Assign	McIvon	CJC	37 (1959)	869
$C_{11}H_{27}N_2O_2PS$	600-1050	Sol	Assign	McIvon	CJC	37 (1959)	869
$C_{11}H_{28}Si_2$	841-2920	Sol	I	West	JOC	18 (1953)	1739
$C_{11}D_9NOS$	600-1700	S,Sol	Spec, Freq, Assign	Hadzi	JCS	- (1957)	847
$C_{11}Cl_5F_{18}I$	-	-	Ident	Haszeldine	JCS	- (1953)	1592

$C_{11}F_{21}N$	Perfluoro-N-cyclohexylpiperidine	2-15 μ	L	Spec	Halpern	APS 11 (1957)	173
<u>C_{12} COMPOUNDS</u>							
$C_{12}H_2Cl_5N_3O_7$	2,4,6-Trinitrophenyl 2',3',4',5',6'-pentachlorophenyl ether	1200-1400	Sol	Spec, Substitution effect	Dahlgard	JACS 80 (1958)	5861
$C_{12}H_4F_6O_2$	2,2,3,3,4,4,4-Heptafluorobutyl pentadecafluorocaprylate	-	L	Group freq	Rappaport	JACS 75 (1953)	2695
$C_{12}H_4D_6$	Biphenyl-1,3,4,1',3',4'- d_6	700-3000	-	Spec	Peregudov	OS 9 (1960)	295
$C_{12}H_4Br_2N_2O_5S$	2,8-Dibromo-3,7-dinitrodibenzothiophene-5-oxide	-	-	Group freq	Gilman	JACS 76 (1954)	5786
$C_{12}H_4Cl_3N_3O_7$	2,4,6-Trinitrophenyl 2',4',6'-trichlorophenyl ether	1200-1400	Sol	Substitution effect	Dahlgard	JACS 80 (1958)	5861
$C_{12}H_4Cl_4O_2$	3,5,3',5'-Tetrachlorodiphenoquinone	1600-1800	Sol	Group freq	Fuson	JACS 76 (1954)	2526
$C_{12}H_4Cl_6O_2S$	2,2'-Thiobis-(3,4,6-trichlorophenol)	2.7-3.0 μ	Sol	Freq, H bond	Baker	JACS 80 (1958)	5358
$C_{12}H_5Cl_2N_3O_7$	2,4,6-Trinitrophenyl 2',4'-dichlorophenyl ether	1200-1400	Sol	Substitution effect	Dahlgard	JACS 80 (1958)	5861
$C_{12}H_5Cl_3N_2O_5$	2,4-Dinitrophenyl 2',4',6'-Trichlorophenyl ether	1200-1400	Sol	Substitution effect	Dahlgard	JACS 80 (1958)	5861

$C_{12}H_5Cl_4NO_3$	2-Chloro-4-nitrophenyl 2',4',6'-trichlorophenyl ether	1200-1400	Sol	Substitution effect	Dahlgard	JACS 80 (1958) 5861
$C_{12}H_5Cl_5O$	2,2',4,4',6-Pentachloro- biphenyl ether	1200-1400	Sol	Substitution effect	Dahlgard	JACS 80 (1958) 5861
$C_{12}H_5Cl_6O_4P$	Di-2,4,5-trichloro- phenoxyhypophospho- rous acid	600-4000	S	Group study	Braunholtz	JCS - (1959) 868
$C_{12}H_5Cl_6O_4P$	Di-(2,4,6-Trichlorophenyl) hydrogen phosphate	-	-	Group freq	Bellamy	JCS - (1952) 1701
$C_{12}H_5N_5O_8$	1,2,6,8-Tetranitrocarbazole	2-15 μ	S	Group freq, Struct	Murphy	JACS 75 (1953) 4289
$C_{12}H_5N_5O_8$	1,3,6,8-Tetranitrocarbazole	2-15 μ	S	Group freq, Struct	Murphy	JACS 75 (1953) 4289
$C_{12}H_6$	Dimethylpentaacetylene	-	-	Group freq	Weber	JCP 21 (1953) 1613
$C_{12}H_6D_4$	Biphenyl-2,5,2',5'-d ₄	700-3000	-	Spec	Peregudov	OS 9 (1960) 295
$C_{12}H_6Br_2O$	2,2-Dibromoacenaphthe- none	-	Sol	Anal	Brutcher	CIL - (1957) 1295
$C_{12}H_6Br_2O_2$	1,3-Dibromo-4-hydroxy- dibenzofuran	-	S,Sol	Group freq	Oita	JOC 20 (1955) 657
$C_{12}H_6Br_2O_2S$	2,8-Dibromodibenzo- thiophene-5-dioxide	-	-	Group freq	Gilman	JACS 76 (1954) 5786
$C_{12}H_6ClN_3O_7$	2,4,6-Trinitrophenyl 4'-chlorophenyl ether	1200-1400	Sol	Substitution effect	Dahlgard	JACS 80 (1958) 5861
$C_{12}H_6Cl_2N_2$	1,6-Dichlorophenazine	650-5000	S	Spec	Gagnon	CJC 35 (1957) 1423
$C_{12}H_6Cl_2N_2O_5$	2,4-Dinitrophenyl 2',4'- dichlorophenyl ether	1200-1400	Sol	Substitution effect	Dahlgard	JACS 80 (1958) 5861

$C_{12}H_6Cl_2N_2O_5$	2,4-Dinitrophenyl 2',6'-dichlorophenyl ether	1200-1400	Sol	Substitution effect	Dahlgard	JACS 80 (1958) 5861
$C_{12}H_6Cl_2O$	2,2-Dichloroacenaaphthenone	-	Sol	Anal	Brutcher	CIL - (1957) 1295
$C_{12}H_6Cl_2O_2$	1,3-Dichloro-4-hydroxy-dibenzofuran	-	-	Group freq Group freq, Ident	Gilman Oita	JACS 76 (1954) 5787 JOC 20 (1955) 657
$C_{12}H_6Cl_2NO_3$	4-Nitrophenyl 2',4',6'-trichlorophenyl ether	1200-1400	Sol	Substitution effect	Dahlgard	JACS 80 (1958) 5861
$C_{12}H_6Cl_4O$	2,2',4,4'-Tetrachloro-biphenyl ether	1200-1400	Sol	Substitution effect	Dahlgard	JACS 80 (1958) 5861
$C_{12}H_6Cl_4O_2S$	2,2'-Thiobis-(4,6-dichlorophenol)	2.7-3.0 μ	Sol	H bond, Freq	Baker	JACS 80 (1958) 5558
$C_{12}H_6N_2$	1,2-Dicyanonaphthalene	-	-	Group study	Adams	JACS 74 (1952) 5562
$C_{12}H_6N_2O_2$	Naphthalene-1,5-diisocyanate	-	Sol	Band freq, I	Davison	JCS - (1953) 3712
$C_{12}H_6O_2$	Acenaaphthenequinone	-	S	Group freq	Josien	JACS 73 (1951) 478
$C_{12}H_6O_2S$	Thiophanthraquinone	3-15 μ	S	Spec	Weinmayr	JACS 74 (1952) 4361
$C_{12}H_6O_3$	Naphthalene-1,2-dicarboxylic acid anhydride	3-12 μ	Sol	Spec	Modest	JACS 72 (1950) 577
$C_{12}H_6O_7$	3-Methoxy-6-methyl-pyromellitic acid	-	Sol	Group freq	Herchstein	JACS 75 (1953) 5455
$C_{12}H_6O_{12}$	Hexacarboxybenzene	640-2020 2-15 μ	S	Spec Spec, Freq, Assign	Cannon Gonzalez-Sanchez	SA 4 (1951) 373 SA 12 (1958) 17
$C_{12}H_7BrO$	2-Bromoacenaaphthenone	-	Sol	Anal	Brutcher	CIL - (1957) 1295

$C_{12}H_7BrO_2$		Sol,S	Freq	Oita	JOC	20 (1955)	657
2-Bromo-4-hydroxy-dibenzofuran	-	-	-	Oita	JACS	76 (1954)	2906
$C_{12}H_7BrS$			Spec	Gilman	JACS	76 (1954)	5786
1-Bromodibenzothiophene	-	-	Substitution effect	Gilman	JACS	80 (1958)	5861
4-Bromodibenzothiophene	-	-	Substitution effect	Gagnon	CJC	35 (1957)	1423
2',4',4'-Tribromo-biphenyl ether	1200-1400	S	Spec	Brutcher	CIL	- (1957)	1295
Chlorotrihydroxyphenazine-5,10-dioxide	650-5000	S	Anal	Gilman	JACS	76 (1954)	5787
2-Chloroacenaphthenone	-	Sol	Group freq	Oita	JOC	20 (1955)	657
1-Chloro-4-hydroxy-dibenzofuran	-	-	Group freq	Gilman	JACS	76 (1954)	2906
2-Chloro-4-hydroxy-dibenzofuran	-	Sol,S	Spec	Dahlgard	JACS	80 (1958)	5861
1-Chlorodibenzothiophene	-	-	Substitution effect	Dahlgard	JACS	80 (1958)	5861
2-Nitrophenyl 2',4'-dichlorophenyl ether	1200-1400	Sol	Substitution effect	Adams	JACS	76 (1954)	1114
4-Nitrophenyl 2',4'-dichlorophenyl ether	1200-1400	Sol	Group freq	Gagnon	CJC	35 (1957)	1423
4-Nitrophenyl 2',6'-dichlorophenyl ether	1200-1400	Sol	Spec	Dahlgard	JACS	80 (1958)	5861
2,6-Dichloro-p-quinone-4-benzenesulfonimide	-	-	Substitution effect	Dahlgard	JACS	80 (1958)	5861
Trichlorodihydroxy-dihydrophenazine	650-5000	S	Group freq	Adams	JACS	76 (1954)	1114
2,2',4'-Trichloro-biphenyl ether	1200-1400	Sol	Spec	Gagnon	CJC	35 (1957)	1423
$C_{12}H_7ClO_3$			Substitution effect	Dahlgard	JACS	80 (1958)	5861

$C_{12}H_7Cl_3O$	2',4,4'-Trichloro-biphenyl ether	1200-1400	Sol	Substitution effect	Dahlgard	JACS 80 (1958)	5861
$C_{12}H_7NO_3S$	9-Thia-1-azaanthrone-9,9-dioxide	-	S	Group freq, Ident Struct, Band freq	Mann Kruger	JCS - (1952) JCS - (1954)	2057 3905
$C_{12}H_7NO_3S$	9-Thia-2-azaanthrone-9,9-dioxide	-	-	Band freq	Kruger	JCS - (1954)	3905
$C_{12}H_7NO_3S$	9-Thia-4-aza-anthrone-9,9-dioxide	-	-	Band freq	Kruger	JCS - (1954)	3905
$C_{12}H_7NO_4$	2,5-Dihydroxy-1,6-dioxisojulone	-	-	Group freq	Braunholtz	JCS - (1955)	398
$C_{12}H_7NO_4$	α -p-Methoxyphenyl- α' -cyanomaleic anhydride	2-16 μ	Sol	Spec, Freq	Rondenstvedt	JOC 19 (1954)	119
$C_{12}H_7N_3$	3,4-Dicyano-1-naphthyl-amine	-	-	Group study	Adams	JACS 74 (1952)	5562
$C_{12}H_7N_3O_4$	6-Nitro-4-phenyl-benzofuroxane	-	-	Spec	Smith	JACS 73 (1951)	2435
$C_{12}H_7N_3O_7$	2,4,6-Trinitrodiphenyl ether	1200-1400	Sol	Substitution effect	Dahlgard	JACS 80 (1958)	5861
$C_{12}H_7N_3O_7$	2,4,6-Trinitro-3-hydroxybiphenyl	-	-	Spec	Colbert	JACS 77 (1955)	2447
$C_{12}H_7N_5O_4$	1-(2',4'-Dinitrophenyl) benzotriazole	-	S	Band freq	O'Sullivan	JCS - (1960)	3653
$C_{12}H_7N_5O_4$	1-(4',5-Dinitrophenyl) benzotriazole	-	S	Band freq	O'Sullivan	JCS - (1960)	3653
$C_{12}H_7N_5O_4$	1-(5,7-Dinitrophenyl) benzotriazole	-	S	Band freq	O'Sullivan	JCS - (1960)	3653

$C_{12}H_8$	Acenaphthylene	700-1700 690-2000	L,S Sol	Spec Spec	Richards Cannon	PRS A195 SA 4	(1948) (1951)	1 373
$C_{12}H_8$	Diphenylene	640-2000	Sol	Spec	Cannon	SA 4	(1951)	373
$C_{12}H_8$	2-Naphthylacetylene	-	Sol	Band freq, I	Jacobs	JOC 17	(1952)	475
$C_{12}H_8Cl_2O_4P$	Di-p-chlorophenyl hydrogen phosphate- d_4	600-3000	S	H bond	Hadzi	PROS -	(1960)	241
$C_{12}H_8BrClN_2O_3$	Bromo derivative of chlorotrihydroxy-dihydrophenazine	650-5000	-	Spec	Gagnon	CJC 35	(1957)	1423
$C_{12}H_8BrNO_3$	2-Nitrophenyl 2'-bromophenyl ether	1200-1400	Sol	Substitution effect	Dahlgard	JACS 80	(1958)	5861
$C_{12}H_8BrNO_3$	2-Nitrophenyl 4'-bromophenyl ether	1200-1400	Sol	Substitution effect	Dahlgard	JACS 80	(1958)	5861
$C_{12}H_8Br_2N_2$	4,4'-Dibromazobenzene	1-15 μ	S,L, Sol	Assign	Maier	ZE 62	(1958)	1020
$C_{12}H_8Br_2N_2O$	4,4'-Dibromoazoxybenzene	1-15 μ	S,L, Sol	Assign	Maier	ZE 62	(1958)	1020
$C_{12}H_8Br_2O$	4,4'-Dibromodiphenyl ether	1200-1400	Sol	Substitution effect	Dahlgard	JACS 80	(1958)	5861
$C_{12}H_8Br_2O_2S$	Di-p-bromophenyl sulfone	-	Sol	Group freq	Waight	JCS -	(1952)	2440
$C_{12}H_8ClNO_3$	2-Chloro-4-nitrodiphenyl ether	1200-1400	Sol	Substitution effect	Dahlgard	JACS 80	(1958)	5861
$C_{12}H_8ClNO_3$	2-Nitrophenyl 2'-chlorophenyl ether	1200-1400	Sol	Substitution effect	Dahlgard	JACS 80	(1958)	5861

$C_{12}H_8ClNO_3$	2-Nitrophenyl 4'-chlorophenyl ether	1200-1400	Sol	Substitution effect	Dahlgard	JACS 80 (1958)	5861
$C_{12}H_8ClNO_3$	4-Nitrophenyl 4'-chlorophenyl ether	1200-1400	Sol	Substitution effect	Dahlgard	JACS 80 (1958)	5861
$C_{12}H_8ClNO_4$	2-Benzylidene-4,5-diketo-3-oxazolidine-acetyl chloride	2-8 μ	Sol	Spec	Sheehan	JACS 74 (1952)	360
$C_{12}H_8Cl_2NO_2$	p-Chlorophenoxy)p-chlorophenyl)dimide	-	-	Spec	Kauffman	A 634 (1959)	64
$C_{12}H_8Cl_2NO_2$	4-4'-Dichloroazoxybenzene	1-15 μ	S, L, Sol	Assign	Maier	ZE 62 (1958)	1020
$C_{12}H_8Cl_2NO_4$	cis-cis-1,5-bis(p-chlorophenyl)3-oxapentaza-1,4-diene	-	-	Spec	Kauffman	A 634 (1959)	64
$C_{12}H_8Cl_2N_4O_2S$	p-Chlorobenzenediazo sulfone	600-1800	S	Spec assign	LeFerre	AJC 6 (1953)	341
$C_{12}H_8Cl_2O$	2,4'-Dichlorodiphenyl ether	1200-1400	Sol	Substitution effect	Dahlgard	JACS 80 (1958)	5861
$C_{12}H_8Cl_2O$	4,4'-Dichlorodiphenyl ether	1200-1400	Sol	Substitution effect	Dahlgard	JACS 80 (1958)	5861
$C_{12}H_8Cl_2O_2S$	bis-(p-Chlorophenyl) sulfone	7-15 μ	Sol	Spec, Anal Ident	Downing Baker	IEC 18 (1946) AC 25 (1953)	461 1457
$C_{12}H_8Cl_2O_3S$	p-Chlorobenzenesulfonic acid, p-chlorophenyl ester(ovex)	650-1400	Sol	Anal	McDonald	AC 29 (1957)	339
$C_{12}H_8Cl_6$	Aldrin	2.3-15 μ	Sol	Spec, Anal	Garhart	AC 24 (1952)	851

$C_{12}H_8Cl_6O$	Dieldrine	2-15 μ	Sol	Spec, Anal	Garhart	AC	24 (1952)	851
$C_{12}H_8F_2N_2$	4,4'-Difluoroazobenzene	1-15 μ	Sol, S, L	Assign	Maier	ZE	62 (1958)	1020
$C_{12}H_8F_2N_2O$	4-4'-Difluoroazoxybenzene	1-15 μ	S, L, Sol	Assign	Maier	ZE	62 (1958)	1020
$C_{12}H_8F_{14}O_4$	1,4-Butanediol bis-heptafluorobutyrate	-	L	Group freq	Rappaport	JACS	75 (1953)	2695
$C_{12}H_8I_2N_2$	4,4'-Diodoazobenzene	11-15 μ	S, L, Sol	Assign	Maier	ZE	62 (1958)	1020
$C_{12}H_8I_2N_2O$	4,4'-Diodoazoxybenzene	1-15 μ	S, L, Sol	Assign	Maier	ZE	62 (1958)	1020
$C_{12}H_8N_2$	1,7-Phenanthroline	3000	L	Spec	Perkampus	ZE	64 (1960)	951
$C_{12}H_8N_2$	1,10-Phenanthroline	600-2000 3000	S L	Spec Spec	Schilt Perkampus	JINC ZE	9 (1959) 64 (1960)	211 951
$C_{12}H_8N_2 \cdot H_2O$	1,10-Phenanthroline monohydrate	600-4000	S	Assign	Bush	JACS	78 (1956)	1137
$C_{12}H_8N_2 \cdot HClO_4$	1,10-Phenanthroline perchlorate	600-2000	S	Spec	Schilt	JINC	9 (1959)	211
$C_{12}H_8N_2$	Phenazine	650-5000 3000	S L	Spec Spec	Gagnon Perkampus	CJC ZE	35 (1957) 64 (1960)	1423 951
$C_{12}H_8N_2O \cdot H_2O$	6-Hydroxy-1,7-phenanthroline	-	S	Taut, Freq	Mason	JCS	- (1957)	4874
$C_{12}H_8N_2O$	1-Hydroxyphenazine	-	S	Taut, Freq	Mason	JCS	- (1957)	4874
$C_{12}H_8N_2O$	2-Hydroxyphenazine	-	S	Taut, Freq	Mason	JCS	- (1957)	4874
$C_{12}H_8N_2O_2$	N- β -Naphthylsydnone	2-15 μ -	S -	Spec Group freq	Earl Fugger	JCS JCS	- (1951) - (1955)	2207 1843

$C_{12}H_8N_2O_2$	3-Nitrocarbazole	2-8.2 μ	Sol	Spec, Group freq	Smith	JACS 73 (1951)	2435
$C_{12}H_8N_2O_2$	Phenazine di-N-oxide	800-1600 650-5000	- S	Spec, Ident Spec	Clemon Gagnon	JCS - (1950) CJC 35 (1957)	1481 1423
$C_{12}H_8N_2O_2$	4-Phenylbenzofuroxan	2-8.2 μ	Sol	Spec, Group freq	Smith	JACS 73 (1951)	2435
$C_{12}H_8N_2O_3$	1-Hydroxyphenazine di-N-oxide	800-1600		Spec, Ident	Clemon	JCS - (1950)	1481
$C_{12}H_8N_2O_3$	2-(p-Nitrobenzoyl) pyridine	700-1700	Sol	Freq, Assign, Substitution effect	Katritzky	JCS - (1959)	2051
$C_{12}H_8N_2O_3$	m-Nitrobenzoyl-2- pyridine	700-1700	Sol	Substitution effect	Katritzky	JCS - (1959)	2058
$C_{12}H_8N_2O_4$	2,2'-Dinitrobiphenyl	-	S,Sol	Group freq	De Tar	JACS 77 (1955)	3842
$C_{12}H_8N_2O_4$	2,3'-Dinitrobiphenyl	-	S,Sol	Group freq	De Tar	JACS 77 (1955)	3842
$C_{12}H_8N_2O_4$	2,4'-Dinitrobiphenyl	-	S,Sol	Group freq	De Tar	JACS 77 (1955)	3842
$C_{12}H_8N_2O_4$	3,3'-Dinitrobiphenyl	-	S,Sol	Group freq	De Tar	JACS 77 (1955)	3842
$C_{12}H_8N_2O_4$	3,4'-Dinitrobiphenyl	-	S,Sol	Group freq	De Tar	JACS 77 (1955)	3842
$C_{12}H_8N_2O_4$	4,4'-Dinitrobiphenyl	700-3500 - 1300-1600	S Sol,S S,Sol	Spec, Struct Group freq Struct	Burton De Tar Kross	JCS - (1950) JACS 17 (1955) JACS 78 (1956)	1316 3842 4225
$C_{12}H_8N_2O_4S$	p,p'-Dinitrodiphenyl sulfide	1300-1600	S,Sol	Struc	Kross	JACS 78 (1956)	4225
$C_{12}H_8N_2O_4S_2$	p,p'-Dinitrodiphenyl disulphide	1300-1600	S,Sol	Struc	Kross	JACS 78 (1956)	4225
$C_{12}H_8N_2O_5$	2,4-Dinitrodiphenyl ether	1200-1400	Sol	Substitution effect	Dahlgard	JACS 80 (1958)	5861
$C_{12}H_8N_2O_5$	2,4-Dinitro-3- hydroxybiphenyl	-	-	Spec	Colbert	JACS 72 (1950)	2447

$C_{12}H_8N_2O_5$	2,6-Dinitro-3-hydroxybiphenyl	-	-	Spec	Colbert	JACS 77 (1955)	2447
$C_{12}H_8N_2O$	4,6-Dinitro-3-hydroxybiphenyl	-	-	Spec	Colbert	JACS 77 (1955)	2447
$C_{12}H_8N_2S$	2-(4-Pyridyl)-benzothiazole	-	Sol	Struc	Porter	JACS 76 (1954)	127
$C_{12}H_8N_4O$	1- α -Picolinoylpyridotriazole	600-3200	S,Sol	Spec	Boyer	JOC 25 (1960)	304
$C_{12}H_8N_4O_2$	1-[2-Nitrophenyl]-benzotriazole	-	S	Band freq, H bond	O'Sullivan	JCS - (1960)	3653
$C_{12}H_8N_4O_2$	5-Nitro-1-phenylbenzotriazole	650-1000	-	Freq	Binder	JACS 81 (1959)	3608
$C_{12}H_8N_4O_2$	1-(5-Nitrophenyl)benzotriazole	-	S	Band freq, H bond	O'Sullivan	JCS - (1960)	3653
$C_{12}H_8N_4O_6$	bis-(5-Methyl-3-isoxazolecarbonyl)furoxan	-	S,Sol	I, Group freq	Boyer	JACS 77 (1955)	4238
$C_{12}H_8N_6O_4$	bis-(5-Methyl-3-isoxazolecarbonyl)furoxazine	-	S,Sol	I, Group freq	Boyer	JACS 77 (1955)	4238
$C_{12}H_8O$	1-Acenaphthenone	-	Sol	Anal	Brutcher	CIL - (1957)	1295
$C_{12}H_8O$	Diphenyl oxide (Dibenzfuran)	850-1950 700-1500	- Sol	Spec Assign, Spec Ident	Barnes Richards Entel	IEC 15 (1943) JCS - (1947) JACS 77 (1955)	659 1260 611
$C_{12}H_8O_2$	Diphenoquinone	- 1600-1800 722-1639 1600-1800	S Sol S Sol	Group freq Group freq Table Group freq	Hadzi Josien Brown Fuson	JACS 73 (1951) JCP 21 (1953) JCS - (1954) JACS 76 (1954)	5460 331 1280 2526

$C_{12}H_{10}O_2$	2-Hydroxy-1-naphthaleneacetic acid lactone	-	-	Ident	Tarbell	JACS	76 (1954)	5761
$C_{12}H_{10}O_2$	Phenyl-p-benzoquinone	-	-	Substitution effect	Flegg	NWS	43 (1956)	467
$C_{12}H_{10}O_2$	6-Phenyl-1,4-benzoquinone	5-15 μ	S	Spec, Struc	Edwards	JAPC	10 (1960)	246
$C_{12}H_{10}O_2S_2$	Diphenylthio sulphonate	7-9 μ	S	Assign	Hazeldine	JCS	- (1955)	2901
$C_{12}H_{10}O_5B_2$	Di-o-phenylene diborate	6-14 μ	L,S	Group freq, Struc	Blau	JCS	- (1960)	380
$C_{12}H_8S$	Dibenzothiophene	-	-	Ident	Gilman	JACS	77 (1955)	3387
$C_{12}H_9DN_2O$	2-Hydroxyazobenzene-d ₁	600-1700	Sol	Assign, Struc	Hadzi	JCS	- (1956)	214
$C_{12}H_9DN_2O$	4-Hydroxyazobenzene-d ₁	600-3400	S	Assign, Struc	Hadzi	JCS	- (1956)	214
$C_{12}H_9Br$	2-Bromodiphenyl	-	S	Iso, Band freq, Anal	Augood	JCS	- (1953)	3412
		-	L	Iso, Anal	Dannley	JACS	76 (1954)	445
$C_{12}H_9Br$	3-Bromodiphenyl	-	S,Sol	Anal, Band freq	Augood	JCS	- (1953)	3412
		-	L	Anal, Iso	Dannley	JACS	76 (1954)	445
$C_{12}H_9Br$	4-Bromobiphenyl	-	S,Sol	Anal, Band freq	Augood	JCS	- (1953)	3412
		-	-	Anal, Iso	Dannley	JACS	76 (1954)	445
$C_{12}H_9BrClNO_3$	4-Chloro-5-bromo-diacetylinodoxyl	700-4000	Sol	Band freq, Assign substitution effect	Holt	JCS	- (1958)	1217
$C_{12}H_9BrN_2$	3-Bromoazobenzene	600-1700	S	Spec, Freq	Le Fevre	AJC	10 (1957)	26
$C_{12}H_9BrN_2$	4-Bromoazobenzene	600-1700	S	Spec, Freq	Le Fevre	AJC	10 (1957)	26
$C_{12}H_9BrN_2O_3$	Bromotrihydroxy-dihydrophenazine	650-5000	S	Spec	Gagnon	CJC	35 (1957)	1423
$C_{12}H_9BrO$	o-Bromodiphenyl ether	1200-1400	Sol	Substitution effect	Dahlgard	JACS	80 (1958)	5861
$C_{12}H_9BrO$	p-Bromodiphenyl ether	1200-1400	Sol	Substitution effect	Dahlgard	JACS	80 (1958)	5861

$C_{12}H_9BrO_3$	2-Ethoxy-3-bromo-1,4-naphthoquinone	1600-1800	Sol,S	Group freq	Josien	JCP	21 (1953)	331
$C_{12}H_9Cl$	m-Chlorodiphenyl	725-875 730-880	Sol S,L, Sol	Anal Anal	Hey Augood	JCS JCS	- -	(1952) (1953) 44
$C_{12}H_9Cl$	o-Chlorodiphenyl	725-875 730-880	Sol S,L, Sol	Anal Anal	Hey Augood	JCS JCS	- -	(1952) (1953) 44
$C_{12}H_9Cl$	p-Chlorodiphenyl	725-875 730-880	Sol S,L, Sol	Anal Anal	Hey Augood	JCS JCS	- -	(1952) (1953) 44
$C_{12}H_9ClN_2$	m-Chloroazobenzene	600-1700	S	Spec, Freq	Le Fevre	AJC	10	(1957) 26
$C_{12}H_9ClN_2$	p-Chloroazobenzene	600-1700	S	Spec, Freq	Le Fevre	AJC	10	(1957) 26
$C_{12}H_9ClN_2O_3$	Chlorotrihydroxy-dihydrophenazine	650-5000	S	Spec	Gagnon	CJC	35	(1957) 1423
$C_{12}H_9ClN_2O_4S$	N-Benzenesulfonyl-2-chloro-4-nitroaniline	-	S	Group freq	Adams	JACS	76	(1954) 3584
$C_{12}H_9ClN_4O_2S$	5-Benzenesulfonamido-x-chlorobenzotriazole	-	-	Struc	Adams	JACS	75	(1953) 3405
$C_{12}H_9ClO$	2-Chlorodiphenyl ether	1200-1400	Sol	Substitution effect	Dahlgard	JACS	80	(1958) 5861
$C_{12}H_9ClO$	4-Chlorodiphenyl ether	1200-1400	Sol	Substitution effect	Dahlgard	JACS	80	(1958) 5861
$C_{12}H_9Cl_2NO_2$	1,3-Dichloroacetylindole	700-4000	S	H bond, Band study	Tanner	SA	9	(1957) 282
$C_{12}H_9Cl_2O_4P$	bis(p-Chlorophenyl)hydrogen phosphate	600-3000	S	H bond	Hadzi	PRCS	-	(1960) 241

$C_{12}H_9F$	2-Fluorodiphenyl	-	S,Sol	Anal, Band freq	Augood	JCS -	(1953)	3412
$C_{12}H_9F$	3-Fluorodiphenyl	-	S,Sol	Anal, Band freq	Augood	JCS -	(1953)	3412
$C_{12}H_9F$	4-Fluorodiphenyl	-	S,Sol	Anal, Band freq	Augood	JCS -	(1953)	3412
$C_{12}H_9FN_2$	3-Fluoroazobenzene	600-1700	S	Spec, Freq	Le Fevre	AJC 10	(1957)	26
$C_{12}H_9FN_2$	4-Fluoroazobenzene	600-1700	S	Spec, Freq	Le Fevre	AJC 10	(1957)	26
$C_{12}H_9F_3O_3S$	1,1-Di-H-perfluoro-n-pentyl p-toluene-sulfonate	-	L	Group freq	Tiers	JACS 75	(1953)	5978
$C_{12}H_9I$	2-Iodobiphenyl	-	S	Anal, Band freq Anal	Augood Dannley	JCS - JACS 76	(1953) (1954)	3412 445
$C_{12}H_9I$	3-Iodobiphenyl	-	S,Sol	Anal, Band freq Anal, Iso	Augood Dannley	JCS - JACS 76	(1953) (1954)	3412 445
$C_{12}H_9I$	4-Iodobiphenyl	-	S,Sol	Anal, Band freq Anal, Iso	Augood Dannley	JCS - JACS 76	(1953) (1954)	3412 445
$C_{12}H_9IN_2$	p-Iodoazobenzene	600-1700	S	Spec, Freq	Le Fevre	AJC 10	(1957)	26
$C_{12}H_9N$	Carbazole	6600-7000	Sol	Spec, Anal	Wulf	JACS 57	(1935)	1464
		1100-1700	-	Spec	Barnes	IEC 15	(1943)	659
		730-930	S	Spec, Anal	Richards	JCS -	(1947)	978
		-	Sol	Table, Band study	Witkop	JACS 72	(1950)	614
		640-2010	Sol,S	Spec	Cannon	SA 4	(1951)	3713
		3/4	L,S	H bond, Band study	Fuson	JCP 20	(1952)	145
		6700-6900	L	Spec, H bond, Group freq	Lauer	APS 6	(1952)	29
		3480	Sol	Group freq	Pozefsky	AC 27	(1955)	1466
		-	Sol	Band freq, I	Russell	JCS -	(1955)	483
$C_{12}H_9NO$	4-Cyano-4-methyl-1-keto-1,4-dihydro-naphthalene	-	-	Group freq, Struc	Fuson	JOC 17	(1952)	886

C ₁₂ H ₉ N ₀	2-Cyano-3-methyl-1-naphthol	-	-	Struc	Fuson	JOC	16 (1951)	1529
C ₁₂ H ₉ N ₀ 2	N-2-Butyrylphthalimide	S	-	Group freq	Ettlinger	JACS	77 (1955)	1831
C ₁₂ H ₉ N ₀ 2	2-Nitrobiphenyl	Sol,S	670-1200	Spec, Anal	Hey	JCS	- (1951)	2892
		Sol,S	-	Group freq	DeTar	JACS	77 (1955)	3842
		Sol	6-8 μ	Freq, I	Conduit	JCS	- (1959)	3273
C ₁₂ H ₉ N ₀ 2	3-Nitrodiphenyl	S,Sol	670-1200	Spec	Hey	JCS	- (1951)	2892
		S,Sol	-	Group freq	De Tar	JACS	77 (1955)	3842
C ₁₂ H ₉ N ₀ 2	4-Nitrodiphenyl	S,Sol	670-1200	Spec	Hey	JCS	- (1951)	2892
		L,S	700-1800	Stretch freq, I	Randle	JCS	- (1952)	4153
		Sol,S	-	Group freq	De Tar	JACS	77 (1955)	3842
		L	1300-1600	Struc	Kross	JACS	78 (1956)	4225
C ₁₂ H ₉ N ₀ 3	2-Acetylamino-1,4-naphthoquinone	S,Sol	1600-1800	Group freq	Josien	JCP	21 (1953)	331
C ₁₂ H ₉ N ₀ 3	2-Hydroxy-2'-nitro-biphenyl	Sol	-	Group study	Colbert	JACS	75 (1953)	2249
C ₁₂ H ₉ N ₀ 3	2-Nitrodiphenyl ether	Sol	1200-1400	Substitution effect	Dahlgard	JACS	80 (1958)	5861
C ₁₂ H ₉ N ₀ 3	4-Nitrodiphenyl ether	Sol	1200-1400	Substitution effect	Dahlgard	JACS	80 (1958)	5861
C ₁₂ H ₉ N ₀ 3	2-Nitro-3-hydroxy-biphenyl	-	-	Spec	Colbert	JACS	77 (1955)	2447
C ₁₂ H ₉ N ₀ 3	4-Nitro-3-hydroxy-biphenyl	-	-	Spec	Colbert	JACS	77 (1955)	2447
C ₁₂ H ₉ N ₀ 3	6-Nitro-3-hydroxy-biphenyl	-	-	Spec	Colbert	JACS	77 (1955)	2447
C ₁₂ H ₉ N ₀ 5	Methyl α -phthalimidomalonalddehyde	-	-	Band freq, Group freq	Sheehan	JACS	76 (1954)	158

$C_{12}H_9NS$	Phenothiazine	2-22 μ	S	Spec, Struc Review paper	Smith Passie	JOC CR	15 (1950) 54 (1954)	1125 797
$C_{12}H_9N_2O_8P$	Di-p-nitrophenyl hydrogen phosphate	-	-	Group study, Group freq	Bellamy	JCS	- (1952)	1701
$C_{12}H_9N_3$	1-Phenylbenzotriazole	600-4000	S	Group freq, Shift Group study	Bell Braunholtz	JACS JCS	76 (1954) - (1959)	5185 868
$C_{12}H_9N_3O_2$	3-Nitroazobenzene	650-1000	-	Freq	Binder	JACS	81 (1959)	3608
$C_{12}H_9N_3O_2$	4-Nitroazobenzene	-	S	H bond, Band freq	O'Sullivan	JCS	- (1960)	3653
$C_{12}H_9N_3O_2$	6-Nitroharman	2.5-15 μ	-	Spec, Freq	Le Fevre	AJC	10 (1957)	26
$C_{12}H_9N_3O_2$	8-Nitroharman	2.5-15 μ	-	Spec, Freq	Le Fevre	AJC	10 (1957)	26
$C_{12}H_9N_3O_4$	p-Nitrobenzeneazo- resorcinol	1300-1600	L	Spec	Snyder	JACS	70 (1948)	222
$C_{12}H_9O_2B$	o-Phylenephenyl- boronate	6-14 μ	L,S	Struc	Snyder	JACS	70 (1948)	222
$C_{12}H_9O_3B$	Phenyl-o-phenylene borate	6-14 μ	L,S	Assign, Struc	Kross	JACS	78 (1956)	4225
$C_{12}H_{10}$	Acenaphthene	3.1-3.7 μ 680-2000	Sol Sol	Assign, Struc	Blau	JCS	- (1960)	380
$C_{12}H_{10}$	Diphenyl	1850-1800 700-1700 8000-9000 700-3500 2-14.5 μ 650-2040	- L,S Sol S Sol Sol	Spec Spec Spec Anal Spec, Struc Anal, Spec Spec Anal Spec, Ident	Fox Cannon Barnes Richards Hibbard Burton Ipatieff Cannon Kuodel Adams	PRS A167 SA	(1938) 4 (1951)	257 373 659 1 486 1316 2772 373 1824 1073

$C_{12}H_{10}BrNO$	N-Acetyl-3-Bromo-1-azulylamine	-	S	Ident	Anderson	JACS	75	(1953)	4980
$C_{12}H_{10}BrNO_3$	5-Bromodiacylindoxyl	700-4000	Sol	Substitution effect, Freq	Holt	JCS	-	(1958)	1217
$C_{12}H_{10}BrNO_3$	6-Bromodiacylindoxyl	700-400	Sol	Substitution effect, Freq	Holt	JCS	-	(1958)	1217
$C_{12}H_{10}ClNO$	1-Chloro-2-acetamidonaphthalene	-	S,Sol	Correlation rule	Cencelj	SA	7	(1955)	274
$C_{12}H_{10}ClNO_2$	2-Chloro-3-ethylaminonaphthaquinone	2200-2800	Sol	Spec	Buckley	JCS	-	(1957)	4891
$C_{12}H_{10}ClNO_3$	4-Chlorodiacylindoxyl	700-4000	Sol	Freq, Substitution effect	Holt	JCS	-	(1958)	1217
$C_{12}H_{10}ClNO_3$	5-Chlorodiacylindoxyl	700-4000	Sol	Freq, Substitution effect	Holt	JCS	-	(1958)	1217
$C_{12}H_{10}ClNO_3$	6-Chlorodiacylindoxyl	700-4000	Sol	Freq, Substitution effect	Holt	JCS	-	(1958)	1217
		3-15 μ	S,L Sol	Spec Anal	Nachod	APS	7	(1953)	91
		-	-	Ident	Newhall	AC	26	(1954)	1234
		-	-	Ident	Silverman	AC	26	(1954)	434
		-	Sol	Anal	De Tar	JACS	77	(1955)	1745
		2-25 μ	S,Sol	Spec, Table, Assign	Dale	ACS	11	(1957)	640
		-	L,S	Assign	Hidalgo	ARS	A54	(1958)	451
		600-4000	Sol	Group freq, Substitution effect	Katritzky	JCS	-	(1958)	4155
		5-38 μ	S	Spec, Freq, Assign	Stewart	JRNB	60	(1958)	125
		15-35 μ	S	Spec, Struc	Bentley	SA	15	(1959)	165
		-	-	Assign, Thermo, Struc	Katon	DA	20	(1959)	523
		300-4000	Sol	Spec, Assign, Thermo	Katon	SA	15	(1959)	627
		11.9-18.4 μ	Sol	Anal	Keen	AC	31	(1959)	1741
		5-15 μ	S	I, Freq, Shift	Lippincott	SA	16	(1960)	58
		700-3000	-	Spec	Peregudov	OS	9	(1960)	295

$C_{12}H_{10}ClOP$	Diphenylchlorophosphine oxide	2-21 μ	L	Spec, Anal Group freq, Shift	Daasch Bell	AC 23 (1951) JACS 76 (1954)	853 5185
$C_{12}H_{10}ClO_3P$	Diphenyl chlorophosphate	700-4000 900-1060	Sol Sol	Spec, Group freq Group and Band freq Group freq, Shift	Bellamy Halman Bell	JCS - (1952) JCS - (1953) JACS 76 (1954)	475 626 5185
$C_{12}H_{10}Cl_2Si$	Dichlorodiphenylsilane	2-30 μ	Sol	Spec, Struc, Correlation Anal	Grenoble	APS 14 (1960)	85
$C_{12}H_{10}Cl_3NO_2$	2,3,5-Trichloro-6-(2'-pyrrolidinovinyl)benzoquinone	2-15 μ	Sol	Freq, Struc	Smith	SA 16 (1960)	87
$C_{12}H_{10}Cl_3NO_2$	2,3,5-Trichloro-6-(2'-morpholinovinyl)-p-benzoquinone	2200-8000	Sol	Absorption	Buckley	JCS - (1957)	4891
$C_{12}H_{10}Cl_3NO_3$	2,3,5-Trichloro-6-(2'-morpholinovinyl)-p-benzoquinone	2200-8000	Sol	Ident	Buckley	JCS - (1957)	4891
$C_{12}H_{10}Cl_4N_3P_3$	Biphenyl trimeric phosphorotriethyl chloride	1150-1350	-	Freq, Shift, Struct	Shaw	CIL - (1959)	54
$C_{12}H_{10}FNO_3$	5-Fluoroacetylindoxyl	700-4000	Sol	Freq, Substitution effect	Holt	JCS - (1958)	1217
$C_{12}H_{10}INO_3$	5-Iodoacetylindoxyl	700-4000	Sol	Substitution effect, Assign	Holt	JCS - (1958)	1217
$C_{12}H_{10}INO_3$	6-Iodoacetylindoxyl	700-4000	Sol	Substitution effect, Assign	Holt	JCS - (1958)	1217
$C_{12}H_{10}NO_4As$	m-Nitrophenyl phenylarsinic acid	600-4000	S	Group study	Braunholtz	JCS - (1959)	868
$C_{12}H_{10}M_2$	Azobenzene	1250-1650	-	Spec Group study	Barres Linnett	IEC 15 (1943) TFS 41 (1945)	659 223
		-	Sol	Anal	De Tar	JACS 77 (1955)	1745
		3000-3800	Sol	H bond	Brealey	JACS 77 (1955)	4462

	1-15 μ	S, L, Sol	Assign	Maier	ZE	62 (1958)	1020
$C_{12}H_{10}N_2$	600-1800	S	Spec, Assign	Le Fevre	AJC	6 (1953)	341
$C_{12}H_{10}N_2$	600-1800	S	Spec, Assign	Le Fevre	AJC	6 (1953)	341
$C_{12}H_{10}N_2$	-	-	Indic of purity	Beech	JCS	- (1955)	423
$C_{12}H_{10}N_2$	-	Sol	Group study	Campbell	JACS	76 (1954)	1371
$C_{12}H_{10}N_2$	-	Sol	Group freq	Marion	JACS	73 (1951)	305
$C_{12}H_{10}N_2O$	1-15 μ	S, L, Sol	Assign	Maier	ZE	62 (1958)	1020
$C_{12}H_{10}N_2O$	2-15 μ	S	Spec, Group study	Earl	JCS	- (1951)	2207
$C_{12}H_{10}N_2O$	2-15 μ	Sol	Spec, Group freq	Pristera	AC	25 (1953)	844
$C_{12}H_{10}N_2O$	6900-7200	Sol	Spec, H bond	Hendricks	JACS	58 (1936)	1991
$C_{12}H_{10}N_2O$	7000	-	Absorp. band	Wulf	JCP	6 (1938)	702
$C_{12}H_{10}N_2O$	3 μ	Sol	Group freq	Ingraham	JACS	74 (1952)	2297
$C_{12}H_{10}N_2O$	2200-3400	S	Assign, Struc	Hadzi	JCS	- (1956)	2143
$C_{12}H_{10}N_2O$	600-1700	S	Spec, Freq	Le Fevre	AJC	10 (1957)	26
$C_{12}H_{10}N_2O$	-	Sol	Freq, Band study	Stone	SA	10 (1958)	17
$C_{12}H_{10}N_2O$	600-1700	Sol	Assign, Struc	Hadzi	JCS	- (1956)	2143
$C_{12}H_{10}N_2O$	4000-6000	Sol	Group freq, Substitution effect	Katritzky	JCS	- (1958)	4155
$C_{12}H_{10}N_2O$	-	Sol	Group study, Assign, I, Struct	Katritzky	JCS	- (1959)	2067
$C_{12}H_{10}N_2O$	600-3000	Sol	Assign, Symmetry	Katritzky	JCS	- (1958)	3165
$C_{12}H_{10}N_2O$	4000-6000	Sol	Group freq, Substitution effect	Katritzky	JCS	- (1958)	4155
$C_{12}H_{10}N_2O$	-	Sol	Group study, Assign, I, Struct	Katritzky	JCS	- (1959)	2067

$C_{12}H_{10}N_2O$	N-(4-Pyridyl)benzamide	4000-6000	Sol	Group freq, Substitution effect	Katritzky	JCS -	(1958) 4155
		-	Sol	Group study, Assign, I, Struct	Katritzky	JCS -	(1959) 2067
$C_{12}H_{10}N_2O_2$	2-Benzylaminopyridine- N-oxide	800-3000 4000-6000	Sol Sol	Substitution effect, I Group freq, Substitution effect	Katritzky Katritzky	JCS - JCS -	(1958) 2195 (1958) 4155
		-	Sol	Group freq, Assign, I, Struct	Katritzky	JCS -	(1959) 2067
$C_{12}H_{10}N_2O_2$	N,N'-Diphenyldiimide monoxide	600-1600	L,S, Sol	Freq	George	CJC 37	(1959) 679
$C_{12}H_{10}N_2O_2$	p-Nitrobenzylpyridine	700-1700	Sol	Freq, Substitution effect	Katritzky	JCS -	(1959) 2051
$C_{12}H_{10}N_2O_2$	2-p-Nitrobenzylpyridine	700-1700	Sol	Freq, Substitution effect	Katritzky	JCS -	(1959) 2051
$C_{12}H_{10}N_2O_2$	2-Nitrodiphenylamine	2-15 μ	Sol	Spec, Anal, Group freq	Priстера	AC 25	(1953) 844
		-	Sol	Band freq, I	Russell	JCS -	(1955) 483
		3200-3500	Sol	Group freq	Moritz	SA 15	(1959) 242
$C_{12}H_{10}N_2O_2$	p-Nitrodiphenylamine	1300-1600	S,Sol	Struc	Kross	JACS 78	(1956) 4225
$C_{12}H_{10}N_2O_2$	Nitrosobenzene dimer	-	-	Group freq	Jauder	JCS -	(1954) 912
$C_{12}H_{10}N_2O_2S_4$	3,3'-Diallyl-4,4'-dioxo- 2,2'-Dithio-5,5'- dithiazolidinylidene	-	-	Group freq, Struc	Mackie	JCS -	(1954) 3919
$C_{12}H_{10}N_2O_3$	p-Azoxyphenol	-	S	Group freq, Struc	Leonard	JOC 17	(1952) 1071
$C_{12}H_{10}N_2O_3$	γ -Keto- β -methylgluta- conic anhydride phenyl- hydrazone	-	-	Group freq	Wiley	JACS 77	(1955) 403

$C_{12}H_{10}N_2O_3$	p-Nitrobenzylpyridine-N-oxide	700-1700	Sol	Freq, Assign, Substitution effect	Katritzky	JCS - (1959)	2051
$C_{12}H_{10}N_2O_3$	2-p-Nitrobenzylpyridine-N-oxide	700-1700	Sol	Freq, Assign, Substitution effect	Katritzky	JCS - (1959)	2051
$C_{12}H_{10}N_2O_3$	4-(p'-Nitrobenzyl)pyridine-1-oxide	600-3000	Sol	Substitution effect	Katritzky	JCS - (1958)	2192
$C_{12}H_{10}N_2O_4^S$	N-Benzenesulfonyl-p-nitroaniline	-	S,Sol	Group freq	Baxter	JCS - (1955)	669
$C_{12}H_{10}N_2O_5$	5-Nitrodiaethylindoxyl	700-4000	Sol	Assign, Substitution effect	Holt	JCS - (1958)	1217
$C_{12}H_{10}N_2O_5$	6-Nitrodiaethylindoxyl	700-400	Sol	Assign, Substitution effect	Holt	JCS - (1958)	1217
$C_{12}H_{10}N_2O_5$	5-Methyl-2-furaldehyde-2,4-dinitrophenylhydrazone	2-15 μ	S	Band spec, Ident	Jones	AC 28 (1956)	191
$C_{12}H_{10}O$	Acenaphthenol	2.75-2.90 μ	Sol	Freq, H bond	Moriconi	JACS 81 (1959)	6472
$C_{12}H_{10}O$	α -Acetonaphthone	1600-3700	Sol	Group freq	Hunsberger	JACS 72 (1950)	5626
$C_{12}H_{10}O$	2-Acetonaphthone	1600-3700	Sol	Group freq	Hunsberger	JACS 72 (1950)	5626
$C_{12}H_{10}O$	Diphenyl ether	1050-1800 700-1500 1750	- Sol Sol	Spec Spec, Assign Freq	Barnes Richards Kross	IEC 15 (1943) JCS - (1947) JACS 77 (1955)	659 1260 5858
		625-900 1200-1400	Sol Sol	Substitution effect Substitution effect	Margoshes Dahlgard	SA 7 (1955) JACS 80 (1958)	14 5861
$C_{12}H_{10}O$	o-Phenylphenol	6800-7200	Sol	Group freq, Substitution effect	Wulf	JACS 58 (1936)	2287
		3607-7035	-	Freq	Fox	PRS A162 (1937)	419
		1050-1800	-	Spec	Barnes	IEC 15 (1943)	659
		700-3700	S,Sol	Assign, Spec	Richards	JCS - (1947)	1260

C ₁₂ H ₁₀ ⁰	p-Phenylphenol	2.5-15 μ	Sol	Spec, Band freq, Table	Friedel	JACS	73	(1951)	2881
		-	S,Sol	Freq	Josien	PR	83	(1951)	486
		2.7-3.0 μ	Sol	H bond, Freq	Baker	JACS	80	(1958)	5358
		-	-	Spec	OkI	BCSJ	33	(1960)	717
		3500-3800	Sol	Freq	Puttnam	JCS	-	(1960)	5100
C ₁₂ H ₁₀ ⁰	p-Phenylphenol	1050-1800	-	Spec	Barnes	IEC	15	(1943)	659
		700-1500	S	Assign, Spec	Richards	JCS	-	(1947)	1260
		700-3500	S	Spec, Struc	Burton	JCS	-	(1950)	1316
		-	-	Anal	Golumbic	JACS	72	(1950)	1939
		-	S,Sol	Freq	Josien	PR	83	(1951)	486
		2.84 μ	Sol	Anal	Simard	AC	23	(1951)	1384
		3 μ	Sol	Freq	Ingraham	JACS	74	(1952)	2297
C ₁₂ H ₁₀ ^{0S}	5-Phenyl-2-acetyl-thiophene	-	-	Substitution effect	Stone	SA	10	(1958)	17
		3500-3800	Sol	Freq	Puttnam	JCS	-	(1960)	5100
		-	-	Spec	Otsuji	NKZ	80	(1959)	1199
		-	-	-	-	-	-	-	-
C ₁₂ H ₁₀ ^{0S}	Diphenyl sulfoxide	990-1110	L,S, Sol	Spec, Freq table, H bond	Barnard	JCS	-	(1949)	2442
		1000-1500	Sol	Spec	Schreiber	AC	21	(1949)	1168
		900-1200	S,Sol	Spec, Band freq	Cyerman	JCS	-	(1951)	1332
C ₁₂ H ₁₀ ⁰²	cis-1,2-Acenaphthenediol	7-10 μ	S,Sol	Assign, Correlation	Haszeldine	JCS	-	(1955)	2901
		2.75-2.90 μ	Sol	Freq, H bond	Moriconi	JACS	81	(1959)	6472
C ₁₂ H ₁₀ ⁰²	trans-1,2-Acenaphthene-diol	2.75-2.9 μ	Sol	Freq, H bond	Moriooni	JACS	81	(1959)	6472
C ₁₂ H ₁₀ ⁰²	4,5-Benzotropolone methyl ether	700-3780	S	Spec	Tarbell	JACS	74	(1952)	1234
C ₁₂ H ₁₀ ⁰²	2,2'-Dihydroxydiphenyl	3100-3700	Sol,S	Assign, Spec	Richards	JCS	-	(1947)	1260
		-	S	Group study	Thompson	JCS	-	(1947)	289
C ₁₂ H ₁₀ ⁰²	2,3-Dimethyl-1,4-naphthoquinone	1600-1800	Sol	Group freq	Josien	JCP	21	(1953)	330

$C_{12}H_{10}O_2$	2,6-Dimethyl-1,4-naphthoquinone	1600-1800	Sol	Group freq	Josien	JCP 21 (1953)	330
$C_{12}H_{10}O_2$	2,7-Dimethyl-1,4-naphthoquinone	1600-1800	Sol	Group freq	Josien	JCP 21 (1953)	330
$C_{12}H_{10}O_2$	3,7-Dimethyl-1,2-naphthoquinone	1600-1800	Sol	Group freq	Josien	JCP 21 (1953)	330
$C_{12}H_{10}O_2$	1-Hydroxy-2-acetone-naphthone	- 650-3800 3μ	Sol S Sol	H bond Spec, Chelation study Freq, H bond	Hilbert Hunsberger Flett	JACS 58 (1936) JACS 72 (1950) SA 10 (1958)	548 5626 21
$C_{12}H_{10}O_2$	2-Hydroxy-1-acetone-naphthone	650-3800	S	Spec, Chelation study	Hunsberger	JACS 72 (1950)	5626
$C_{12}H_{10}O_2$	3-Hydroxy-2-acetone-naphthone	630-380	S	Spec, Chelation study	Hunsberger	JACS 72 (1950)	5626
$C_{12}H_{10}O_2$	Methyl 1-azulooate	- -	- -	Ident Ident	Anderson Anderson	JACS 75 (1953) JACS 75 (1953)	4979 4980
$C_{12}H_{10}O_2$	Methyl α -naphoate	1600-3700	Sol	Spec, Chelation study, Group freq	Hunsberger	JACS 72 (1950)	5626
$C_{12}H_{10}O_2$	Methyl β -naphoate	1600-3700	Sol	Spec, Chelation study, Group freq	Hunsberger	JACS 72 (1950)	5626
$C_{12}H_{10}O_2$	o-Phenoxyphenol	3μ	Sol	Freq, H bond	Flett	SA 10 (1958)	21
$C_{12}H_{10}O_2$	4-Phenylcatechol	3μ	Sol	Freq	Ingraham	JACS 74 (1952)	2297
$C_{12}H_{10}O_2S$	bis-(p-Hydroxyphenyl)sulfide	1000-1500	Sol	Spec	Schreiber	AC 21 (1947)	1168
$C_{12}H_{10}O_2S$	Diphenyl sulfone	1000-1500 $5.5-2.4\mu$	Sol S	Spec Spec, Group freq and Table	Schreiber Cymerman	AC 21 (1949) JCS - (1951)	1168 1332

$C_{12}H_{10}O_2S$	2, 2'-Thiodiphenol	2.7-3.0 μ	Sol	H bond	Baker	JACS	80	(1958)	5358
$C_{12}H_{10}O_2S_2$	Phenyl benzenethio- sulfonate	5.5-24 μ	S	Spec, Group freq and Table	Cyerman	JCS	-	(1951)	1332
$C_{12}H_{10}O_3$	Methyl 1-hydroxy-2- naphthoate	650-3800	S	Spec, Chelation study	Hunsberger	JACS	72	(1950)	5626
$C_{12}H_{10}O_3$	Methyl 2-hydroxy-1- naphthoate	650-3800	S	Spec, Chelation study	Hunsberger	JACS	72	(1950)	5626
$C_{12}H_{10}O_3$	Methyl 3-hydroxy-2- naphthoate	650-3800	S	Spec, Chelation study	Hunsberger	JACS	72	(1950)	5626
$C_{12}H_{10}O_3$	2-Naphthol-1-acetic acid	-	-	Ident	Tarbell	JACS	76	(1954)	5761
$C_{12}H_{10}O_3S$	o-Hydroxydiphenyl sulfone	-	S, Sol	Group freq	Amstutz	JACS	73	(1951)	1220
$C_{12}H_{10}O_3S$	p-Hydroxydiphenyl sulfone	-	S, Sol	Group freq	Amstutz	JACS	73	(1951)	1220
$C_{12}H_{10}O_4$	2,3,6,7-bis-(Methylene- dioxy)-9,10-dihydronaph- thalene	700-500	S, Sol	Group freq	Briggs	AC	29	(1957)	904
$C_{12}H_{10}O_4$	3-Hydroxy-2-naphthyl- glycolic acid	-	S	Group freq	Soffer	JACS	74	(1952)	1556
$C_{12}H_{10}O_4$	Quinhydrone	2.7-3.5 μ	S	Spec, H bond	Davies	JCP	8	(1940)	577
$C_{12}H_{10}O_4$	Terranaphthoic acid	-	S	Group freq	Hochstein	JACS	75	(1953)	5455
				Group freq	Waight	JCS	-	(1952)	2440
				Ident	Djerassi	JACS	75	(1953)	3838
				Assign, Correlation	Haszeldine	JCS	-	(1955)	2901
				Substitution effect	Monose	CPBT	6	(1958)	412
				Spec, Freq	Bavin	SA	16	(1960)	1312

Chemical Formula	Chemical Name	Wavenumber (cm ⁻¹)	Phase	Assignment	Author	Year	Page
C ₁₂ H ₁₀ O ₄ S	bis-(p-Hydroxyphenyl) sulfone	1000-1500	Sol	Spec	Schreiber	21 (1949)	1168
C ₁₂ H ₁₀ O ₄ S ₂	Diphenyl disulphone	1000-1500 5.5-24 μ	Sol S	Spec Spec, Band freq	Schreiber Cyerman	21 (1949) - (1951)	1168 1332
C ₁₂ H ₁₀ O ₄ S ₃	bis-Benzenesulfonyl sulfide	5.5-24 μ 6-9 μ	S S	Spec, Band freq Assign, Correlation	Cyerman Haszeldine	- (1951) - (1955)	1332 2901
C ₁₂ H ₁₀ S	Phenyl sulfide	0.6-2.8 μ 1000-1500 1080	L Sol L	Group study Spec Freq vs electronegativity correlation Substitution effect	Ellis Schreiber Kross	50 (1928) 21 (1949) 77 (1955)	2113 1168 5858
C ₁₂ H ₁₀ S ₂	Phenyl disulfide	625-900	L	Substitution effect	Margoshes	7 (1955)	14
C ₁₂ H ₁₀ Se	Diphenylselenide	1000-1500 5.5-24 μ	Sol S	Spec Spec, Band freq and Table	Schreiber Cyerman	21 (1949) - (1951)	1168 1332
C ₁₂ H ₁₁ ClN ₂ O	6-Chloro-1-(2'-cyano)ethyl-1,2,3,4-tetrahydro-4-ketoquinoline	-	L	Substitution effect, freq vs electronegativity correlation Substitution effect	Kross	77 (1955)	5858
C ₁₂ H ₁₁ ClN ₂ O ₂ S	N'-Benzenesulfonyl-2-chloro-p-phenylene-diamine	625-900	L	Substitution effect	Margoshes	7 (1955)	14
C ₁₂ H ₁₁ ClSi	Monochlorodiphenylsilane	-	S	Group & band freq, struct	Braunholtz	- (1953)	1817
C ₁₂ H ₁₁ ClSi	Phenyl-p-chlorophenylsilane	2050-2250	Sol	Group freq	Adams	76 (1954)	3584
C ₁₂ H ₁₁ ClSi	Phenyl-p-chlorophenylsilane	2-16 μ	Sol	Freq	Smith	15 (1959)	412
C ₁₂ H ₁₁ ClSi	Phenyl-p-chlorophenylsilane	2-16 μ	Sol	Freq	Kriseley	15 (1959)	651

$C_{12}H_{11}F_3O_2$	α -Ethylbenzoyltrifluoroacetone	-	-	Group freq, Anal	Barkeley	JACS 75 (1953)	2059
$C_{12}H_{11}F_3O_2$	2-(1,1,1-Trifluoro)- Δ^2 -penty1 benzoate	-	-	Anal	Barkley	JACS 75 (1953)	2059
$C_{12}H_{11}N$	m-Aminodiphenyl	3μ	Sol	Freq	Elliot	JCS - (1959)	1275
$C_{12}H_{11}N$	o-Aminodiphenyl	800-1600	-	I	Katritzky	JCS - (1959)	3670
$C_{12}H_{11}N$	p-Aminodiphenyl	-	-	Freq, Assign, Struc	Katritzky	JCS - (1959)	3674
$C_{12}H_{11}N$	Benzyl-2-pyridine	1400-2600 3μ	Sol	Group freq Struct, Group study Freq	Krueger Whetsel Elliot	PRS 243 (1957) AC 30 (1958) JCS - (1959)	143 1598 1275
$C_{12}H_{11}N$	Benzyl-4-pyridine	600-4000	Sol	Group freq, Substitution effect	Katritzky	JCS - (1958)	4155
$C_{12}H_{11}N$	Diphenylamine	600-4000	Sol	Group freq, Substitution effect	Katritzky	JCS - (1958)	4155
$C_{12}H_{11}N$		2-12 μ	L	Spec	Bell	JACS 48 (1926)	813
		6-2.2 μ	L	Group study	Ellis	JACS 50 (1928)	685
		6550-6850	Sol	Group band	Liddell	JACS 55 (1933)	3574
		6500-6800	Sol	Spec, Group study, Anal	Wulf	JACS 57 (1935)	1464
		2.7-3.5 μ	S,Sol	H bond	Buswell	JACS 62 (1940)	2759
		2.6-3.1 μ	Sol	H bond	Gordy	JACS 62 (1940)	497
		1050-1800	-	Spec	Barnes	IEC 15 (1943)	659
		-	-	Group study	Linnett	TFS 41 (1945)	223
		3200-3550	Sol	H bond, Spec	Richards	JCS - (1947)	1260
		3420	-	Group freq	Flett	JCS - (1948)	1441
		-	-	Group study	Richards	TFS 44 (1948)	40
		3435	Sol	Group study, I	Richards	TFS 45 (1949)	874
		3μ	L	Group freq, H bond	Fuson	JCP 20 (1952)	145
		2-15 μ	Sol	Spec, Group freq	Priester	AC 25 (1953)	844
		-	S,Sol	Group freq	Baxter	JCS - (1955)	669
		-	-	Anal	Dannley	JOC 20 (1955)	92
		-	Sol	Band freq, I	Russel	JCS - (1955)	483

	600-4000	S	Spec Freq	Heacock	CJC	34	(1956)	1782
	-	S	Freq	Hadzi	JOS	-	(1957)	843
	2900-3100	Sol	Freq	Hill	JOS	-	(1958)	760
	600-4000	Sol	Group freq, Substitution effect	Katritzky	JOS	-	(1958)	4155
	3100-3550	Sol	H bond	Lund	AOS	12	(1958)	298
	3200-3500	Sol	Group freq	Moritz	SA	15	(1959)	242
$C_{12}H_{11}N$	-	-	Group freq	Herz	JACS	76	(1954)	576
β -(2-Pyrrole)styrene	-	-	Group freq	Witkop	JACS	76	(1954)	5597
$C_{12}H_{11}N \cdot HCl$	-	-	Group freq					
4-Benzylpyridine hydrochloride	-	-	Group freq					
$C_{12}H_{11}N \cdot HBr$	1000-3500	S	Band study	Chenon	CJC	36	(1958)	1181
Diphenylamine hydrobromide	-	-	-	-	-	-	-	-
$C_{12}H_{11}N \cdot HCl$	600-4000	S	Spec, Freq	Heacock	CJC	34	(1956)	1782
Diphenylamine hydrochloride	1000-3500	S	Band study	Chenon	CJC	36	(1958)	1181
$C_{12}H_{11}N \cdot HI$	1000-3500	S	Band study	Chenon	CJC	36	(1958)	1181
Diphenylamine hydriodide	2000-4000	S, Sol	H bond	Brisette	CJC	38	(1960)	34
$C_{12}H_{11}NO$	-	-	I	Anderson	JACS	75	(1953)	4980
N-Acetyl-1-azulylamine	-	-	-	-	-	-	-	-
$C_{12}H_{11}NO$	4000-600	Sol	Substitution effect	Katritzky	JOS	-	(1958)	4155
2-Benzylidenepyridine-N-hydroxide	-	-	-	-	-	-	-	-
$C_{12}H_{11}NO$	4000-600	Sol	Substitution effect	Katritzky	JOS	-	(1958)	4155
2-Benzylloxypyridine	-	-	-	-	-	-	-	-
$C_{12}H_{11}NO$	600-4000	Sol	Group freq, Substitution effect	Katritzky	JOS	-	(1958)	4155
Benzyl-2-pyridine-1-oxide	-	-	-	-	-	-	-	-
$C_{12}H_{11}NO$	600-400	Sol	Group freq, Substitution effect	Katritzky	JOS	-	(1958)	4155
Benzyl-4-pyridine-1-oxide	-	-	-	-	-	-	-	-
$C_{12}H_{11}NO$	600-3000	Sol	Substitution effect	Katritzky	JOS	-	(1958)	2192
N-Benzylpyridone-2	-	-	-	-	-	-	-	-
$C_{12}H_{11}NO$	800-4000	S	Spec, Freq	Katritzky	JOS	-	(1960)	2947
N-Benzylpyridone-4	-	-	-	-	-	-	-	-
$C_{12}H_{11}NO$	800-4000	S	Spec, Freq	Katritzky	JOS	-	(1960)	2947

$C_{12}H_{11}NO$	4-Cyano-4-methyl-1-keto-1,2,3,4-tetrahydronaphthalene	-	-	Group freq	Fuson	JOC 74 (1952)	886
$C_{12}H_{11}NO$	2,3-Cyclopenteno-4-quinolone	2-12 μ	S	Spec, Group freq	Witkop	JACS 73 (1951)	2641
$C_{12}H_{11}NO$	3,4-Cyclopenteno-2-quinolone	2-12 μ	S	Spec, Group freq	Witkop	JACS 73 (1951)	2641
$C_{12}H_{11}NOS$	Benzylthio-2-pyridine-1-oxide	800-3000 600-4000	Sol Sol	Substitution effect Group freq, Substitution effect	Katritzky Katritzky	JCS - (1958) JCS - (1958)	2195 4155
$C_{12}H_{11}NOS$	Benzylthio-4-pyridine-1-oxide	600-4000	Sol	Group freq, Substitution effect	Katritzky	JCS - (1958)	4155
$C_{12}H_{11}NOS$	N-Methyl(thio)uranilide	600-3000	Sol	Substitution effect, I	Katritzky	JCS - (1958)	2192
$C_{12}H_{11}NOS$	4-Benzoyloxy-2-pyridine-1-oxide	600-1700	S	Spec, Freq, Assign	Hadzi	JCS - (1957)	847
$C_{12}H_{11}NO_2$	o-Carboethoxycinnamoni-trile	600-3000 4000-600	Sol Sol	Substitution effect Substitution effect	Katritzky Katritzky	JCS - (1958) JCS - (1958)	2192 4155
$C_{12}H_{11}NO_2$	N-cis-Crotylphthalimide	-	-	Group freq	Curry	JACS 75 (1953)	5740
$C_{12}H_{11}NO_2$	N-trans-crotylphthalimide	10.65-14.42 μ S	S	Group freq, Table	Ettlinger	JACS 77 (1955)	1831
$C_{12}H_{11}NO_2$	1,3-Diacetylinole	10.23-14.18 μ S	S	Freq	Ettlinger	JACS 77 (1955)	1831
$C_{12}H_{11}NO_2$	2,6-Dihydroxy-4-methyl-3-phenylazopyridine	700-4000	S	Spec, Freq	Tanner	SA 9 (1957)	282
$C_{12}H_{11}NO_2$	3-Ethoxycarbonylquinoline	757-3356	S	Band freq, Table	Ames	JCS - (1953)	3008
$C_{12}H_{11}NO_2$	7-Ethoxycarbonyl-quinoline	1300-1700 1300-1700	Sol Sol	Freq Freq	Katritzky Katritzky	JCS - (1960) JCS - (1960)	2942 2942

	Ethyl o-cyanocinnamate	-	Group freq	Curry	JACS	75 (1953)	5740
$C_{12}H_{11}NO_2$	N-Benzoyloxypropionamide	800-4000	S	Spec, Freq	JCS	-	(1960) 2947
$C_{12}H_{11}NO_2$	N-Benzoyloxypropionamide	800-4000	S	Spec, Freq	JCS	-	(1960) 2947
$C_{12}H_{11}NO_2$	N-Benzoyloxypropionamide	-	S, Sol	Group freq	JCS	-	(1955) 669
$C_{12}H_{11}NO_3$	3-Carboxy-2-methyl-4-oxo-1-phenyl- Δ^2 -pyrrolidine	2-8 μ	S	I table	JCS	-	(1953) 3802
$C_{12}H_{11}NO_3$	3-Carboxy-4-methoxy-1-phenylpyrrole	2-8 μ	S	I table	JCS	-	(1953) 3802
$C_{12}H_{11}NO_3$	Diacetyloxindoxyl	700-4000	Sol	Freq, Assign, Substitution effect	JCS	-	(1958) 1217
$C_{12}H_{11}NO_3$	5-Ethoxycarbonyl-8-hydroxyquinoline	3300-3400	Sol	Freq, I, Substitution effect, H bond	JCS	-	(1958) 3437
$C_{12}H_{11}NO_3$	Ethyl β -cyano- β -phenylpyruvate	-	S	Band freq, I	JCS	-	(1953) 3518
$C_{12}H_{11}NO_4$	5-Carboxymethylisatin	1500-3500	S	Freq, Struc	JCS	-	(1959) 667
$C_{12}H_{11}NO_4$	Phthalylglycine ethyl ester	1380-1450	Sol	Spec, Shift	JACS	74 (1952)	833
$C_{12}H_{11}NO_5$	Benzoyloxycarbonyl-L-aspartic anhydride	-	S	Iso	JCS	-	(1954) 2870
$C_{12}H_{11}NS$	N-Benzylpyridin-4-thione	800-4000	S	Spec, Freq	JCS	-	(1960) 2947
$C_{12}H_{11}NS$	Benzylthio-2-pyridine	600-4000	Sol	Group freq, Substitution effect	JCS	-	(1958) 4155

$C_{12}H_{11}NS$	Benzylthio-4-pyridine	600-4000	Sol	Group freq, Substitution effect	Katritzky	JCS - (1958)	4155
$C_{12}H_{11}N_3$	p-Aminoazobenzene	600-1800	S	Spec, Assign	Le Fevre	AJC 6 (1953)	341
		-	S	Spec, Freq	Le Fevre	AJC 10 (1957)	26
		-	-	Absorption, Assign, Struet	Katritzky	JCS - (1959)	3674
$C_{12}H_{11}N_3$	Diazoaminobenzene	600-1900	S	Spec, Assign	Le Fevre	AJC 6 (1953)	341
		-	Sol	Substitution effect	Dyall	AJC 13 (1960)	230
$C_{12}H_{11}N_3$	p-Phenyldiazoaniline	700-1700	Sol	Freq	Krueger	PRS 243 (1957)	143
		-	Sol	Freq, Assign, Substitution effect	Katritzky	JCS - (1959)	2051
$C_{12}H_{11}N_3 \cdot HCl$	p-Aminoazobenzene hydrochloride	600-1800	S	Spec, Assign	Le Fevre	AJC 6 (1953)	341
$C_{12}H_{11}N_3O_3$	1-cyano- α -ethylcarboxy- glyoxal phenylhydrazone	650-4000	S, Sol	H bond, Freq	Tanner	SA 15 (1959)	20
$C_{12}H_{11}N_3O_3$	α -p-Nitrobenzylamino- pyridine-N-oxide	800-3000	Sol	Substitution effect	Katritzky	JCS - (1958)	2195
$C_{12}H_{11}N_3O_3S$	2-Thio-3-O-nitrophenyl 1,5-trimethylenehydantoin (derived from l- psoline)	600-4000	S	Spec, Ident	Epp	AC 29 (1957)	1283
$C_{12}H_{11}N_3O_3S$	2-Thio-3-O-nitro- phenylhydantoin-5- propanoic acid (derived from l- glutamic acid)	600-400	S	Spec, Ident	Epp	AC 29 (1957)	1283
$C_{12}H_{11}N_5$	1-(2',4'-Diaminophenyl) benzotriazole	-	Sol	Band freq, H bond	O'Sullivan	JCS - (1960)	3653
$C_{12}H_{11}O_2P$	Diphenylhypophosphorous acid	1500-4000	S	Spec	Braunholtz	JCS - (1959)	868

$C_{12}H_{11}O_3P$	Phenyl hydrogenphenyl-phosphonate	600-5000	S,Sol	Spec, H bond	Peppard	JINC 12 (1960)	60
$C_{12}H_{11}O_4P$	Diphenyl hydrogen-phosphate	- 500-4000	Sol,S Sol,S	Group Freq H bond	Bellamy Peppard	JOS - JINC 7 (1958)	1701 231
$C_{12}H_{11}O_4P \cdot 2H_2O$	Diphenyl hydrogen phosphate monohydrate	-	S	Group freq	Bellamy	JOS -	(1952) 1701
$C_{12}H_{11}PS_2$	Diphenylphosphinodithioic acid	2200-2700	Sol	H bond, Spec	Allen	JOS -	(1957) 3912
$C_{12}H_{12}$	1,3-Dimethylazulene	-	-	Review	Gordon	CR 50 (1952)	127
$C_{12}H_{12}$	1,4-Dimethylazulene	-	-	Review	Gordon	CR 50 (1952)	127
$C_{12}H_{12}$	4,8-Dimethylazulene	-	-	Review	Gordon	CR 50 (1952)	127
$C_{12}H_{12}$	8,8-Dimethylbenzofulvene	4000-660	Sol	Spec	Wood	AC 30 (1958)	1339
$C_{12}H_{12}$	1,2-Dimethylnaphthalene	690-900 2-15 μ	S,Sol -	Correlation Struct, Ident	Cencelj Cagniant	SA 7 (1955) BSOF -	274 1403
$C_{12}H_{12}$	1,6-Dimethylnaphthalene	650-2000	L -	Spec Ident	Cannon Phillips	SA 4 (1951) JACS 77 (1955)	373 3658
$C_{12}H_{12}$	1,7-Dimethylnaphthalene	630-900	S,Sol	Correlation rule	Cencelj	SA 7 (1955)	274
$C_{12}H_{12}$	1,8-Dimethylnaphthalene	630-900	S,Sol	Correlation rule	Cencelj	SA 7 (1955)	274
$C_{12}H_{12}$	2,3-Dimethylnaphthalene	670-2000	Sol	Spec	Cannon	SA 4 (1951)	373
$C_{12}H_{12}$	2,6-Dimethylnaphthalene	640-2000	Sol	Spec	Cannon	SA 4 (1951)	373
$C_{12}H_{12}$	2,7-Dimethylnaphthalene	650-2020	Sol	Spec	Cannon	SA 4 (1951)	373
$C_{12}H_{12}$	1-Ethyl-naphthalene	6 μ 15-35 μ	- S	Spec Spec, Struc, Correlation	Kutz Bentley	JACS 70 (1948) SA 15 (1959)	4026 165

$C_{12}H_{12}Br_2O_6$	Diethyl 2,5-dihydroxy-3,6-dibromoterephthalate	6600-7000	Sol	Band spec, H bond	Hilbert	JACS 58 (1936)	548
$C_{12}H_{12}ClNO_2 \cdot HCl$	3-Dimethylaminomethyl-6-chlorochromone hydrochloride	-	-	Spec	Wiley	JACS 74 (1952)	4326
$C_{12}H_{12}Cl_2NO_2$	Dianilinochlorophosphine oxide	-	S	Group freq	Bellamy	JCS - (1952)	1701
$C_{12}H_{12}Cl_3NO_2$	2,3,5-Trichloro-6,2'-diethylaminovinylquinone	2200-2800	Sol	Absorption	Buckley	JCS - (1957)	4891
$C_{12}H_{12}F_4NB$	Diphenylammonium tetrafluoroborate	-	S	H bond, Band freq	Nuttall	JCS - (1960)	4965
$C_{12}H_{12}NO_3P$	Diphenylamino-phosphonate	-	S, Sol	Group freq Group freq, Shift	Bellamy Bell	JCS - (1952) JACS 76 (1954)	1701 5185
$C_{12}H_{12}NO_3P$	Phenyl hydrogen anilino-phosphonate	-	-	Group freq	Bellamy	JCS - (1952)	1701
$C_{12}H_{12}N_2$	Benzidine	6400-7000 1050-1800	Sol	Band spec, Anal Spec	Wulf Barnes	JACS 57 (1935) IEC 15 (1943)	1464 659
$C_{12}H_{12}N_2$	1-Cyanomethyl-2,3-dimethylpyrrocoline	-	-	Group freq	Rositter	JCS - (1953)	3654
$C_{12}H_{12}N_2$	1,2-Di-(2-pyridyl)ethane	-	Sol	Ind of purity	Campbell	JACS 76 (1954)	1371
$C_{12}H_{12}N_2$	Hydrazobenzene	6300-6800	Sol S	Band spec, Anal Struc	Wulf Cohen	JACS 57 (1935) JACS 75 (1953)	1464 880
$C_{12}H_{12}N_2 \cdot 2HCl$	Benzidine dihydrochloride	2-8 μ	-	Spec	Nakanishi	BCSJ 30 (1957)	403
$C_{12}H_{12}N \cdot 2HI$	Hydrazobenzene dihydriodide	-	S	Group freq	Cohen	JACS 75 (1953)	880

$C_{12}H_{12}N_2O$	700-3500 S	Spec, Table, Assign	Culbertson	JACS 74 (1952) 4834
6-Acetyl-2,4-dimethyl-quinazoline				
$C_{12}H_{12}N_2O$	800-1700 Sol	Freq, Assign	Katritzky	JCS - (1959) 657
2-Acetylfuran phenylhydrazone				
$C_{12}H_{12}N_2O$	2.86-6.50 μ -	Table, I	Moore	JACS 77 (1955) 3417
1-Amino-3-hydroxy-4-methyl-5-phenylpyridine				
$C_{12}H_{12}N_2O$	800-3000 Sol	Substitution effect	Katritzky	JCS - (1958) 2195
α -Benzylaminopyridine N-oxide				
$C_{12}H_{12}N_2O$	3.01-7.45 μ -	Table, I	Moore	JACS 77 (1955) 3417
4-Hydroxy-5-methyl-6-phenyl-7H-1,2-diazepine				
$C_{12}H_{12}N_2OS$	2.5-15 μ S	Spec, I	Ramachandran	AC 27 (1955) 1734
1-Oxy-2-phenyl-3-thio-1-imidazolidino-(1,5- α)pyrrolidine				
$C_{12}H_{12}N_2O_2$	700-4000 S	H bond, Group study	Tanner	SA 9 (1957) 282
3-Indolylglyoxalic acid N,N-dimethylamide				
$C_{12}H_{12}N_2O_2$	1300-1700 Sol	Freq	Katritzky	JCS - (1960) 2942
2-Ethoxycarbonylaminoquinoline				
$C_{12}H_{12}N_2O_2$	- Sol	Table, Major peaks	Witkop	JACS 72 (1950) 614
Spiro-[cyclopentane-1,2'-N-nitroso- ψ -indoxyl]				
$C_{12}H_{12}N_2O_2S$	- S	Substitution effect	Momose	CPBF 6 (1957) 412
Di-p-aminophenyl sulfone				
$C_{12}H_{12}N_2O_2S$	2.5-15 μ S	Spec, I	Ramachandran	AC 27 (1955) 1734
1-Oxy-2-phenyl-3-thio-1-imidazolidino-(1,5- α)-6-hydroxypyrrrolidine				
$C_{12}H_{12}N_2O_3$	2-16 μ Sol	Spec, Table, Freq	Umberger	AC 24 (1952) 1309
Luminal	2.5-16 μ S	Spec, Anal Ident	Levi	AC 28 (1956) 1591
	-		Cleverley	ANA 85 (1960) 582

$C_{12}H_{12}N_2O_3 \cdot HCl$	Ethyl 4-quinazalone-3-acetate hydrochloride	-	-	Group freq	Baker	JOC	20 (1955)	118
$C_{12}H_{12}N_2O_3S$	3-Phenyl-2-thio-5-hydantoinpropionic acid	2.5-15 μ	S, L	Spec, Ident	Remachandran	AC	27 (1955)	1734
$C_{12}H_{12}N_2O_3S_2$	4,4-Dimethyl-3-p-nitrobenzoyl-2-thiothiazolidone	-	-	Group freq	Clapp	JACS	75 (1953)	1490
$C_{12}H_{12}N_2O_3S_2$	4-Ethyl-3-p-nitrobenzoyl-2-thiothiazolidone	-	-	Group freq	Clapp	JACS	75 (1953)	1490
$C_{12}H_{12}N_2O_4S$	5-Ethyl-3-p-nitrobenzoyl-2-thiooxazolidone	-	-	Group freq	Clapp	JACS	75 (1953)	1490
$C_{12}H_{12}N_2S_2$	Di-p-aminophenyl disulfide	5.5-24 μ	S	Spec, Band freq, Group freq	Cymerman	JCS	- (1951)	1332
$C_{12}H_{12}N_2O_4$	2-N-Vinylanilino-4-hydroxy-6-methoxy-s-triazine	-	-	Spec, Band freq, Struc	Schaefer	JACS	73 (1951)	3004
$C_{12}H_{12}N_2O_4S$	2-Thio-3-o-nitrophenyl hydantoin-5-propionamide (Derived from L-Glutamine)	600-4000	S	Spec, Ident	Epp	AC	29 (1957)	1283
$C_{12}H_{12}O$	Ethyl 2-naphthyl ether	-	-	Group freq	Tsou	JACS	76 (1954)	3704
$C_{12}H_{12}O$	2-Methyl-3-phenylcyclopentene-1-one	-	-	Band freq	Tsou	JACS	76 (1954)	6108
$C_{12}H_{12}O$	4-Methyl-3-phenyl-2-cyclopenten-1-one	-	S, Sol	Band study	Yates	JACS	80 (1958)	5896
$C_{12}H_{12}O$	2-cyclopenten-1-one	-	S, Sol	Band study	Yates	JACS	80 (1958)	5896

$C_{12}H_{12}O$	1- α -Naphthylethanol-1	665-5000	L	Group freq	Zeiss	JACS 75 (1953)	897
$C_{12}H_{12}O$	1- β -Naphthylethanol-1	665-5000	L	Group freq	Zeiss	JACS 75 (1953)	897
$C_{12}H_{12}O$	3-Phenylcyclohex-2-en-1-one	-	Sol	Band study	Walker	JACS 77 (1955)	3664
$C_{12}H_{12}O$	Styryl cyclopropyl ketone	1600-1800	Sol	Group freq	Fuson	JACS 76 (1954)	2526
$C_{12}H_{12}OSi$	Diphenylsilanol	3300-3700	Sol	H bond	West	JACS 81 (1959)	6145
$C_{12}H_{12}O_2$	α -Benzylidene- δ -valerolactone	-	S,L	Group freq, Struc	Pinder	JCS - (1952)	2236
$C_{12}H_{12}O_2$	2(2-Hydroxyethoxy) naphthalene	3 μ	Sol	Freq, H bond	Flett	SA 10 (1958)	21
$C_{12}H_{12}O_2$	3-Methyl-5-phenyl-2-cis, 4-trans-pentadienoic acid	-	-	Band study	Cawley	JACS 77 (1955)	4130
$C_{12}H_{12}O_2$	3-Methyl-5-phenyl-2-trans, 4-cis-pentadienoic acid	-	-	Band study	Cawley	JACS 77 (1955)	4130
$C_{12}H_{12}O_2$	3-Methyl-5-phenyl-all-trans-pentadienoic acid	-	-	Band study	Cawley	JACS 77 (1955)	4130
$C_{12}H_{12}O_2Si$	Dihydroxydiphenylsilane	500-1650 2-16 μ	S	Spec, Table, Assign Spec	Richards Tatlock	JCS - (1949) JOC 17 (1952)	124 1555
$C_{12}H_{12}O_3$	2-Acetyl-8-hydroxy-1-tetralone	-	Sol	Band freq	Hochstein	JACS 75 (1953)	5455
$C_{12}H_{12}O_3$	endo-6,6-Dimethylfulvene maleic anhydride adduct	2-25 μ	S	Spec, Freq	Craig	JACS 76 (1954)	4573

$C_{12}H_{12}O_3$	exo-6,6-Dimethylfulvene maleic anhydride adduct	2-25 μ	S	Spec, Freq	Craig	JACS 76 (1954)	4573
$C_{12}H_{12}O_3$	2,4-Dimethyl-2-phenyl- 6-keto-1,3-dioxene	2-16 μ	Sol	Spec	Carrol	JACS 75 (1953)	5400
$C_{12}H_{12}O_3$	3-Hydroxy-2-naphthyl- ethylene glycol	-	S	Group freq	Soffer	JACS 74 (1952)	1556
$C_{12}H_{12}O_3$	6-Methoxy-2,3-dimethyl- chromone	-	Sol	Band study	Morton	JCS 123 (1923)	2570
$C_{12}H_{12}O_3$	7-Methoxy-2,3-dimethyl- chromone	-	Sol	Band study	Morton	JCS 123 (1923)	2570
$C_{12}H_{12}O_3$	8-Methoxy-2,3-dimethyl- chromone	-	Sol	Band study	Morton	JCS 123 (1923)	2570
$C_{12}H_{12}O_4$	Decarboxyterracinoic acid	2-16 μ	Sol	Spec Ident	Pasternack Conover	JACS 74 (1952) JACS 75 (1953)	1928 4017
$C_{12}H_{12}O_4$	3-Ethyl-4-hydroxy-6- methoxycoumarin	2-15 μ	S,Sol	Struc, Spec	Farmer	SA 15 (1959)	870
$C_{12}H_{12}O_4$	Isodecarboxyterracinoic acid	-	-	Ident Group freq	Conover Hochstein	JACS 75 (1953) JACS 75 (1953)	4017 5455
$C_{12}H_{12}O_4$	Methyl α -methyl-3,4- methylenedioxy- cinnamate	2-15.5 μ	Sol	Spec, Group freq, Struc	Schrecker	JACS 76 (1954)	4896
$C_{12}H_{12}O_5$	7-Acetyl-4,6-di- hydroxy-3,4-dimethyl- coumaran-2-one	700-1100	Sol	Group freq	Briggs	AC 29 (1957)	904
$C_{12}H_{12}O_5$	Resacetophenone diacetate	-	-	Ident	Dean	JCS - (1955)	2166
$C_{12}H_{12}O_5$		1550-4000	Sol S	Band study Group freq	Barton Hergert	JCS - (1953) JACS 75 (1953)	603 1622

	600-4000	-	Spec, Group freq	Herzert	JOC	25 (1960)	405
$C_{12}H_{12}O_5$	3-Methoxy-4-acetoxycinnamic acid	-			JOC	-	405
$C_{12}H_{12}O_5$	Methyl gliadiolate	-	Group & Band freq	Grove	JCS	-	3345
$C_{12}H_{12}O_5$	Methyl isogradiolate	-	Group freq	Grove	JCS	-	3345
$C_{12}H_{12}O_7$	Tetramethoxyphthalic anhydride	729-1173	Table, I	Duncanson	JCS	-	3637
$C_{12}H_{12}Si$	Diphenylsilane	-	Group freq	Vischer	JCS	-	815
$C_{12}H_{13}ClO$	α -Ethyl- α -chloro-tetralone	2-13 μ	Spec	West	JOC	18 (1953)	303
$C_{12}H_{13}ClO_6S$	4-Diacetoxymethyl-3-chlorophenylmethyl sulfone	-	Group freq, I	Harvey	JACS	76 (1954)	4555
$C_{12}H_{13}Cl_2N_3$	9-Chloro-1-ethyl-2,3-dihydro-1H-imidazo[1-2c]quinazoline-4-ium chloride	2-16 μ	Freq	Knisley	SA	15 (1959)	651
		2050-2250	Freq, Struc	Smith	SA	15 (1959)	412
		2-15 μ	Freq, Struc	Smith	SA	16 (1960)	87
$C_{12}H_{13}ClO$	α -Ethyl- α -chloro-tetralone	-	Group freq shift	Stevens	JACS	77 (1955)	4590
$C_{12}H_{13}ClO_6S$	4-Diacetoxymethyl-3-chlorophenylmethyl sulfone	-	Freq	Momose	CPBT	6 (1958)	412
$C_{12}H_{13}Cl_2N_3$	9-Chloro-1-ethyl-2,3-dihydro-1H-imidazo[1-2c]quinazoline-4-ium chloride	-	Struc	Sherrill	JOC	19 (1954)	699
$C_{12}H_{13}N$	Benzyl-2-pyrrolemethane	-	Ident	Herz	JACS	76 (1954)	576
$C_{12}H_{13}N$	γ -Cyclooctatetraenyl-n-propyl cyanide	2-16 μ	Spec	Cope	JACS	75 (1953)	3220
$C_{12}H_{13}N$	N,N-Dimethyl-1-naphthylamine	2-12 μ	Spec	Bell	JACS	47 (1925)	3039
$C_{12}H_{13}N$	Ethyl- α -naphthylamine	6-2.3 μ	Group study	Ellis	JACS	50 (1928)	685
$C_{12}H_{13}N$	Ethyl- α -naphthylamine	1-12 μ	Spec	Bell	JACS	47 (1925)	3039

		6-2.3 μ 2900-3100	L Sol	Group study	Ellis Hill	JACS 50 (1928) JCS - (1958)	685 760
$C_{12}H_{13}N$	1:2:3:4-Tetrahydro- carbazole	2-11 μ	Sol	Spec, Table, Major bands	Witkop	JACS 72 (1950)	614
		1300-3500	S	Absorption band	Bhide	TE 4 (1958)	420
$C_{12}H_{13}N$	2,3,8-Trimethylquinoline	2-15 μ	Sol	Spec	Karr	JACS 81 (1959)	152
$C_{12}H_{13}N$	2,4,6-Trimethylquinoline	2-15 μ	Sol	Spec	Karr	JACS 81 (1959)	152
$C_{12}H_{13}N$	2,4,7-Trimethylquinoline	2-15 μ	Sol	Spec	Karr	JACS 81 (1959)	152
$C_{12}H_{13}N$	2,4,8-Trimethylquinoline	2-15 μ	Sol	Spec	Karr	JACS 81 (1959)	152
$C_{12}H_{13}N$	2,5,7-Trimethylquinoline	2-15 μ	Sol	Spec	Karr	JACS 81 (1959)	152
$C_{12}H_{13}N$	2,5,8-Trimethylquinoline	2-15 μ	Sol	Spec	Karr	JACS 81 (1959)	152
$C_{12}H_{13}N$	2,6,8-Trimethylquinoline	2-15 μ	Sol	Spec	Karr	JACS 81 (1959)	152
$C_{12}H_{13}NO$	γ -Cyano- α -methyl- α - phenylbutyraldehyde	-	-	Group study	Fuson	JOC 17 (1952)	886
$C_{12}H_{13}NO$	1-Dimethylamino-2- naphthol	2.7-3.0 μ	Sol	H bond, Freq	Baker	JACS 80 (1958)	5358
$C_{12}H_{13}NO$	2,5-Dimethyl-4-oxo-1- phenyl- Δ^2 -pyrroline	2-8 μ	S	Table, I	Davoll	JCS - (1953)	3802
$C_{12}H_{13}NO$	2-(2,5-Dimethylpyrrol) phenol	2.7-3.0 μ	Sol	H bond, Freq	Baker	JACS 80 (1958)	5358
$C_{12}H_{13}NO$	3-Ethyl-2-methyl-4- quinolone	1450-4000	S, Sol	Spec, Freq	Price	AJC 12 (1959)	589

$C_{12}H_{13}NO$	11-Hydroxytetrahydrocarbazolenine	2-12 μ	Sol	Spec, Band freq, Struc	Witkop	JACS 73 (1951)	2188
$C_{12}H_{13}NO$	Spiro[cyclopentane-1,2'- ψ -indoxyl] (6-aza-7,8-benz-spiro [4,4] nonanone-9)	2-11 μ -	Sol -	Spec Struct	Witkop Witkop	JACS 72 (1950) JACS 73 (1951)	614 2188
$C_{12}H_{13}NO$	Spiro(cyclopentane-1,3'-pseudooxindole)	-	-	Ident	Witkop	JACS 75 (1953)	2572
$C_{12}H_{13}NO$	1,3,4-Trimethylcarbostryril	2-16 μ	Sol	Spec, Freq	Cook	JOC 22 (1957)	211
$C_{12}H_{13}NO$	1,4,6-Trimethylcarbostryril	2-16 μ	Sol	Spec, Freq	Cook	JOC 22 (1957)	211
$C_{12}H_{13}NO$	1,4,7-Trimethylcarbostryril	2-16 μ	Sol	Spec, Freq	Cook	JOC 22 (1957)	211
$C_{12}H_{13}NO_2$	1-Aza-8,9-benzoclonona-2,7-dione	2-12 μ	Sol	Spec, Struc	Witkop	JACS 73 (1951)	2196
$C_{12}H_{13}NO_2$	Butyrate indoxyl ester	700-4000	S	Freq, Band assign, Struc, H bond	Holt	JCS - (1958)	1217
$C_{12}H_{13}NO_2$	γ -Cyano- γ -phenylvaleric acid	-	-	Group study	Fuson	JOC 17 (1952)	886
$C_{12}H_{13}NO_2$	11-Hydroperoxytetrahydrocarbazolenine	2-12 μ	Sol	Spec, Band freq, Struc	Witkop	JACS 73 (1951)	2188
$C_{12}H_{13}NO_2$	5-Hydroxy-2,5-dimethyl-4-oxo-1-phenyl- Δ^2 -pyrroline	2-8 μ	S	Table, Group freq, I	Davoll	JCS - (1953)	3802
$C_{12}H_{13}NO_2$	Propoxyquinoline-N-oxide	700-3000	-	Spec	Shindo	CPBT 8 (1960)	845

$C_{12}H_{13}NO_2$	2,4,4-Trimethyl-homophthalimide	600-3500	Sol	Assign, Struc, Discussion	Bluhm	SA 13 (1958)	93
$C_{12}H_{13}NO_2 \cdot HCl$	3-Dimethylaminomethyl-chromone hydrochloride	-	-	Spec	Wiley	JACS 74 (1952)	4326
$C_{12}H_{13}NO_3$	2-Benzamido-4-pentenoic acid	2-12 μ	-	Spec	Hurd	JOC 18 (1953)	1440
$C_{12}H_{13}NO_3$	N-Benzoyl-2-amino-4-hydroxyvaleric acid lactone	2-11 μ	-	Spec	Hurd	JOC 18 (1953)	1440
$C_{12}H_{13}NO_3$	N-Benzylxyglutarimide	-	Sol	Group freq	Ames	JCS - (1955)	631
$C_{12}H_{13}NO_3$	4,7-Dimethoxy-1-methyl-2-quinolone	1450-4000	Sol	Spec, Freq	Price	AJC 12 (1959)	589
$C_{12}H_{13}NO_3$	Methyl oxindole-3-propionate	-	-	Ident	Lloyd	JACS 76 (1954)	3651
$C_{12}H_{13}NO_4$	1-Acetyl-5,6-dimethoxy-oxindole	-	Sol	Freq	Walker	JACS 77 (1955)	3844
$C_{12}H_{13}NO_4$	N-Acetylphenaceturic acid	2-8 μ	Sol	Spec, Group freq	Sheehan	JACS 74 (1952)	4555
$C_{12}H_{13}NO_4$	2-Methyl-7,8-dimethoxy-homophthalimide	600-3500	Sol	Assign, Struc, discussion	Bluhm	SA 13 (1958)	93
$C_{12}H_{13}NO_4$	N,N,O-Triacetyl-o-aminophenol	-	Sol	Band freq	Witkop	JACS 74 (1952)	3861
$C_{12}H_{13}NO_6$	2,3,6-Triacetoxy-4-methylpyridine	765-1767	L	Table, Band freq	Ames	JCS - (1953)	3008
$C_{12}H_{13}N_2O_2P$	Dianilinosphonic acid	-	-	Group freq	Bellamy	JCS - (1952)	1701
$C_{12}H_{13}N_3$	1- β -Naphthyl-3,3-dimethyltriazene	600-1800	S	Spec assign	Le Fevre	AJC 6 (1953)	341

C ₁₂ H ₁₃ N ₃ O	4-Propylidene-3-amino-1-phenyl-5-pyrazolone	400-4000	-	Wave numbers, Discussion	Gagnon	CJC 37 (1959)	110
C ₁₂ H ₁₃ N ₃ O ₂ S	3-Phenyl-2-thio-5-hydantoinpropionamide	2.5-15 μ	S	Spec, Ident	Ramachandran	AC 27 (1955)	1734
C ₁₂ H ₁₃ N ₃ O ₂ S	2-(p-Sulfonamidophenyl)-4,6-dimethylpyrimidine	-	S	Group freq, Struc	Bergmann	JOC 18 (1953)	64
C ₁₂ H ₁₃ N ₃ O ₃ S	2-Thio-3-o-nitrophenyl-5-isopropylhydantoin (derived from dl valine)	600-4000	S	Spec, Ident	Epp	AC 29 (1957)	1283
C ₁₂ H ₁₄	All trans-2,4,8,10-dodecatetraen-6-yne	-	Sol	Group freq, I	Allan	JCS - (1955)	1874
C ₁₂ H ₁₄	2-Phenylbicyclopropyl	-	-	Band freq	Smith	JACS - (1951)	3840
C ₁₂ H ₁₄	3-Phenylcyclohexene	-	Sol	Freq, Substitution effect	Potts	AC 27 (1955)	1027
C ₁₂ H ₁₄	1,1,3-Trimethylindene	-	-	Ident	Barnes	JACS 76 (1954)	5430
C ₁₂ H ₁₄ ClNO ₃	Cotarnine chloride	-	Sol	Band freq	Witkop	JACS 75 (1953)	4474
C ₁₂ H ₁₄ ClNO ₃	Ethyl N-benzyl-N-chloroacetylcarbamate	650-4000	Sol	Spec	Pianka	JCS - (1960)	983
C ₁₂ H ₁₄ ClN ₃ O	6-Chloro-3-ethylaminoethyl-4-quinazoline	-	-	Struc	Sherril	JOC 19 (1954)	699
C ₁₂ H ₁₄ ClN ₃ O	6-Chloro-4-(2'-ethylaminoethoxy)quinazoline	-	-	Struc	Sherril	JOC 19 (1954)	699
C ₁₂ H ₁₄ ClN ₃ O ₂ HCl	6-Chloro-3-ethylaminoethyl-9-quinazoline hydrochloride	-	-	Struc	Sherril	JOC 19 (1954)	699
C ₁₂ H ₁₄ NO ₃	Cotarnine	-	S	Struc	Witkop	JCS 75 (1953)	4474

$C_{12}H_{14}N_2O$	3-Dimethylaminoacetyl- indole	700-4000	S	Spec, Freq	Tanner	SA	9 (1957)	282
$C_{12}H_{14}N_2OS$	5-Isopropyl-3-phenyl-2- thiohydantoin	2.5-15 μ	S	Spec, Ident	Ramachandran	AC	27 (1955)	1734
$C_{12}H_{14}N_2OS_2$	5-(2-Methylmercaptoethyl)- 3-phenyl-2-thiohydantoin	2.5-15 μ	S	Spec, Ident	Ramachandran	AC	27 (1955)	1734
$C_{12}H_{14}N_2O_2$	1,4-Aza-8:9-benz-4- methylcyclonona-2, 7-dione	2-12 μ	S	Spec, Group freq, Struc	Witkop	JACS	75 (1953)	3371
$C_{12}H_{14}N_2O_2$	3-n-Butylbenzoyleneurea	2-16 μ	S	Spec, Group freq	Staiger	JOC	18 (1953)	1427
$C_{12}H_{14}N_2O_2$	1,2-Dimethyl-3- (2-nitroethyl)indole	-	S,Sol	Group freq	Noland	JACS	81 (1959)	1203
$C_{12}H_{14}N_2O_2$	DL-6-Methyltryptophan	-	-	Ident	Snyder	JACS	75 (1953)	1873
$C_{12}H_{14}N_2O_2 \cdot H_3PO_4$	DL-Tryptophan methyl ester phosphate	3-15 μ	L,S	Spec, Freq	Li	JACS	77 (1955)	3519
$C_{12}H_{14}N_2O_3$	N-Acetyl-2-amino-4,5- dimethoxyphenyl- acetonitrile	-	Sol	Freq	Walker	JACS	77 (1955)	3844
$C_{12}H_{14}N_2O_3$	Cyclopal	2-16 μ	Sol	Spec, Tables, Freq Ident	Umberger Cleverley	AC ANA	24 (1952) 85 (1960)	1309 582
$C_{12}H_{14}N_2O_3$	1-Ethylcarboxy- β -methyl- glyoxal α -phenylhydrazone	650-4000	S,Sol	Struct	Tanner	SA	15 (1959)	20
$C_{12}H_{14}N_2O_4$	Carbothiophenylglycyl-DL alanine	-	S	Band freq	Asai	JPC	59 (1955)	322
$C_{12}H_{14}N_2O_5$	3-Acetamido-2,6-diacetoxy -4-methylpyridine	887-3268	S	Band freq	Ames	JCS	- (1953)	3008

$C_{12}H_{14}N_2O_5$	3'-Acetyl-0 ² :5'-cyclothymidine	-	-	Ident	Michelson	JCS	-	(1955)	816
$C_{12}H_{14}N_2O_5$	2,4-Dinitro-6-cyclohexylphenol	1050-1825	-	Spec	Barnes	IEC	15	(1943)	659
$C_{12}H_{14}N_4$	N,N'-bis-2'-cyanoethyl-0-phenylenediamine	-	-	Group study	Braunholtz	JCS	-	(1953)	1817
$C_{12}H_{14}N_4O_4$	Cyclohexanone-2,4-dinitro-phenylhydrazone	2-16 μ	Sol	Spec, Group freq	Ramirez	JACS	76	(1954)	1037
$C_{12}H_{14}N_4O_4$	Mosetyl oxide-2,4-dinitro-phenylhydrazone	6-15 μ 2-15 μ	S S	Spec, Table Band spec, Ident	Ross Jones	AC AC	25 28	(1953) (1956)	1288 191
$C_{12}H_{14}N_8O_{27}$	Sucrose octantrate	2-15 μ	S	Spec	Kuhn	AC	22	(1950)	276
$C_{12}H_{14}O$	1,2-Benzocyclooct-1-en-3-one	-	L,Sol L	Group freq Group freq	Schubert Schubert	JACS JACS	76 77	(1954) (1955)	5462 4172
$C_{12}H_{14}O$	Cyclopentyl phenyl ketone	1600-1800	Sol Sol	Group freq Group freq, Ident	Fuson Curtin	JACS JACS	76 77	(1954) (1955)	2526 1105
$C_{12}H_{14}O$	2,6-Diallylphenol	2.7-2.95 μ	Sol	H bond	Baker	JACS	81	(1959)	4524
$C_{12}H_{14}O$	2,4,6,8,10-Dodecapentaenal	1400-2000	Sol,S	Spec	Blout	JACS	70	(1948)	194
$C_{12}H_{14}O$	α -Ethyltetralone	1686	-	Group freq, Shift	Stevens	JACS	77	(1955)	4590
$C_{12}H_{14}O$	2-Phenylcyclohexanone	1650-1800	Sol Sol	Group study Group study, Ident	Cross Curtin	TFS JACS	47 77	(1951) (1955)	354 1105
$C_{12}H_{14}O$	1-Phenylcyclopentane-carboxaldehyde	-	-	Group freq, Ident	Curtin	JACS	77	(1955)	1105
$C_{12}H_{14}O$	Styryl isopropyl ketone	1600-1800	Sol	Group freq	Fuson	JACS	76	(1954)	2526

$C_{12}H_{14}O$	Styryl propyl ketone	1600-1800	Sol	Group freq	Fuson	JACS	76 (1954)	2526
$C_{12}H_{14}O_2$	2-Acetyl-5,6,7,8-tetrahydro-1-naphthol	800-2900	Sol	Spec, Freq	Lacey	JCS	- (1960)	3153
$C_{12}H_{14}O_2$	o-Allylphenyl glycidyl ether	2-15	Sol, L	Spec, Group freq	Patterson	AC	26 (1954)	823
$C_{12}H_{14}O_2$	Cyclohexyl-p-benzoquinone	-	-	Substitution effect	Flagg	NWS	43 (1956)	467
$C_{12}H_{14}O_2$	2-Cyclohexyl-p-benzoquinone	-	Sol	Assign, Shift discussed	Flaig	A	626 (1959)	215
$C_{12}H_{14}O_2$	γ -Cyclooctatetraenyl-n-butyric acid	2-16	Sol	Spec	Cope	JACS	75 (1953)	3220
$C_{12}H_{14}O_2$	β -Cyclooctatetraenylethyl acetate	2-16	L	Spec, Group assign	Cope	JACS	75 (1953)	3215
$C_{12}H_{14}O_2$	1,3-Diacetyl-2,4-dimethylbenzene	-	-	Group freq, Struc	Fuson	JOC	18 (1953)	496
$C_{12}H_{14}O_2$	1,3-Diacetyl-4,6-dimethylbenzene	-	-	Group freq	Fuson	JOC	18 (1953)	496
$C_{12}H_{14}O_2$	trans-1-Hydroxy-methelene-2-keto-10 methyl- $\Delta^{3,6}$ -hexhydro-naphthalene	2-12	Sol	Spec	Woodward	JACS	74 (1952)	4223
$C_{12}H_{14}O_2$	Isopropyl cinnamate	800-1500	Sol	Band study, Assign	Katritzky	SA	16 (1960)	954
$C_{12}H_{14}O_2$	Isopropyl phenylacrylate	-	-	Assign	Katritzky	SA	16 (1960)	3162
$C_{12}H_{14}O_2$	1-Mesityl-2-propen-2-ol-1-one	-	L	Band freq, I	Fuson	JACS	75 (1953)	5952
$C_{12}H_{14}O_2$	6-Methoxy-8-methyl-1-tetralone	-	S	Group freq	Dreiding	JACS	75 (1953)	3162

$C_{12}H_{14}O_2$	5-Methyl-7-methoxy-1-tetralone	-	S	Group freq	Dreiding	JACS 75 (1953)	3162
$C_{12}H_{14}O_3$	Allyl 2-carbomethoxy-6-methylphenyl ether	9-11 μ	L	Spec, Group freq, Assign	Rhoads	JACS 76 (1954)	3456
$C_{12}H_{14}O_3$	2-Carbomethoxy-4-allyl-6-methylphenol	9.5-11.5 μ	L	Spec, Group freq, Struc	Rhoads	JACS 76 (1954)	3456
$C_{12}H_{14}O_3$	3-Carboxy-4-methyl-ar-2-tetralol	6.09-11.60 μ	Sol	Table, Freq, I	Dreiding	JOC 19 (1954)	241
$C_{12}H_{14}O_3$	cis-1,4-Diketo-2-methoxy-10-methyl $\Delta^{2,6}$ -hexahydronaphthalene	2-12 μ	Sol	Spec	Woodward	JACS 74 (1952)	4223
$C_{12}H_{14}O_3$	trans-1,4-Diketo-2-methoxy-10-methyl- $\Delta^{2,6}$ -hexahydronaphthalene	2-12 μ	Sol	Spec	Woodward	JACS 74 (1952)	4223
$C_{12}H_{14}O_3$	5:8-Dimethoxytetralone	-	Sol	Freq	Farmer	JCS - (1956)	3600
$C_{12}H_{14}O_3$	Ethyl m-methoxycinnamate	700-1700 900-3000 800-1500	Sol Sol Sol	Substitution effect Group freq, Assign Band study, Assign Band study, Assign	Katritzky Katritzky Katritzky Katritzky	JCS - (1959) JCS - (1959) SA 16 (1960) SA 16 (1960)	2058 2062 954 964
$C_{12}H_{14}O_3$	Ethyl β -methyl- β -phenylglycidate	1600-1800	Sol	Freq	House	JACS 80 (1958)	6389
$C_{12}H_{14}O_3$	5-Hydroxy-3-methylindane-2-acetic acid	-	Sol	Group freq	Pasternack	JACS 74 (1952)	1928
$C_{12}H_{14}O_3$	Isopropenylmethyl-tetrahydrophthalic anhydride	1000-1800	-	Spec	Barnes	IEC 15 (1943)	659

$C_{12}H_{14}O_3$	2-Keto-3-carboxy-10-methyl- $\Delta^{1,9,3,4}$ -hexahydronaphthalene	3.78-11.42 μ S, Sol	Band freq, I, Table	Dreiding	JOC	76 (1954)	241
$C_{12}H_{14}O_4$	Diethyl phthalate	1-2.5 μ	Spec	Smith	JACS	48 (1926)	1512
		-	Band freq, I	Kendall	APS	7 (1953)	179
		2-15	Spec, Anal, Freq	Priester	AC	25 (1953)	844
		800-1800	Ident, Spec	Stafford	AC	26 (1954)	656
		800-1600	I	Katritzky	JCS	- (1959)	3670
		800-1500	Assign	Katritzky	SA	16 (1960)	954
		-	Assign	Katritzky	SA	16 (1960)	964
$C_{12}H_{14}O_4$	Diethyl isophthalate	700-1700	Substitution effect	Katritzky	JCS	- (1959)	2058
		800-1500	Band study, Assign	Katritzky	SA	16 (1960)	954
		-	Assign	Katritzky	SA	16 (1960)	964
$C_{12}H_{14}O_4$	Diethyl terephthalate	-	Spec, Freq	Seidel	ZE	62 (1958)	214
		700-1700	Freq, Assign, Substitution effect	Katritzky	JCS	- (1959)	2051
		800-1500	Band study, Assign	Katritzky	SA	16 (1960)	954
		-	Assign	Katritzky	SA	16 (1960)	964
$C_{12}H_{14}O_4$	Dimethyl 2,8-decadiyne-1,10-dioate	-	Group freq, I	Allan	JCS	- (1955)	1874
$C_{12}H_{14}O_4$	Dimethyl 3,7-decadienedioate	-	Band freq	Jones	JCS	- (1954)	3212
$C_{12}H_{14}O_4$	p-Methylbenzylidene diacetate	665-1755	Assign, I	Bell	JCS	- (1960)	1209
$C_{12}H_{14}O_4$	2-(3,4-Methylenedioxyphenoxy)tetrahydro-pyran	-	Band freq	Baroza	JACS	77 (1955)	3332
$C_{12}H_{14}O_5$	t-Butyl-o-carboxybenzoyl peroxide	5-15 μ	Group freq, Table	Davison	JCS	- (1951)	2456
		-	Spec, Group study	Minkoff	PES	224 (1954)	176

$C_{12}H_{14}O_5$	4-Carboxy-5,6-dimethoxy -7-methylphthalan	11 μ	S,Sol	Assign, Spec	Allison	JCS - (1958)	4311
$C_{12}H_{14}O_5$	4-Methylcarboxy 5,6- dimethoxyphthalan	11 μ	S,Sol	Spec, Assign	Allison	JCS - (1958)	4311
$C_{12}H_{14}O_5$	4-Methylcarboxy 5,7- dimethoxyphthalan	11 μ	S,Sol	Spec, Assign	Allison	JCS - (1958)	4311
$C_{12}H_{14}O_5$	3,4,5-Trimethoxy- cinnamic acid	-	-	Ident Ident	Klohs Klohs	JACS 76 (1954) JACS 77 (1955)	2843 2241
$C_{12}H_{14}O_6$	Acetyljacozinecic anhydride	2-15 μ	S,L, Sol	Spec	Bradbury	AJC 9 (1956)	258
$C_{12}H_{14}O_6$	Ethyl ethylcarboxy- phenoxy carbonate	-	L	Freq, Struc, Dissociation	Hales	JCS - (1957)	618
$C_{12}H_{14}O_6$	bis- β -Hydroxyethyl- terephthalate	2-15 μ	S	Spec, Struc	Miyake	BOSJ 30 (1957)	361
$C_{12}H_{14}O_6$	4-Carboxy-5,6,7- trimethoxyphthalan	11 μ	S,Sol	Spec, Assign	Allison	JCS - (1958)	4311
$C_{12}H_{14}O_6$	Ethoxycarbonyl phenoxy- ethyl carbonate	-	Sol	Freq, Struct	Hales	JCS - (1957)	618
$C_{12}H_{14}O_6S$	p-Diacetoxymethylphenyl methyl sulfone	-	S	Freq	Momose	CEBT 6 (1958)	412
$C_{12}H_{14}O_7$	Methyl 3-hydroxy-5- methylcyclopentadiene -1,2,4-tricarboxylate	-	-	Group freq, Struc	Acheson	JCS - (1952)	1127
$C_{12}H_{14}O_7$	Phenyl β -D-glucopyranoside	-	Sol	Group freq	Tsou	JACS 75 (1953)	1042
$C_{12}H_{14}O_8$	Diglycol terephthalate	5-15 μ	S	Spec	Miller	TFS 49 (1953)	433

$C_{12}H_{14}O_8$	Tetramethoxyphthalic acid	-	-	Group freq	Vischer	JCS - (1953)	815
$C_{12}H_{14}O_9$	Triacetyl- β -D-glucofururonolactone	2-14 μ	Sol	Spec, Assign, Band freq	Tsou	JACS 74 (1952)	5605
$C_{12}H_{15}BrO_3$	6-Bromopiperonyl t-butyl ether	719-1481	L	Group freq	Briggs	AC 29 (1957)	904
$C_{12}H_{15}Cl_2NO_4$	3,5-Dicarbethoxy-2-dichloromethyl-4-methylpyrrole	500-4000	Sol	Spec, Freq, Struc	Eisner	JCS - (1958)	971
$C_{12}H_{15}IN_2O$	Peganine methiodide	-	Sol	Band freq	Witkop	JACS 75 (1953)	4474
$C_{12}H_{15}IO_4$	Iodobenzene dipropionate	665-1755	S,Sol	Assign, I	Bell	JCS - (1960)	1209
$C_{12}H_{15}N$	1,4-Dimethyl-2, β -dihydro-1-benzazepine	-	L	Group freq	Astill	JACS 77 (1955)	4079
$C_{12}H_{15}N$	cis-Hexahydrocarbazole	2-11 μ	Sol	Spec	Witkop	JACS 72 (1950)	614
$C_{12}H_{15}N$	Spiro-[cyclopentane-1,2'-dihydroindole]	2-11 μ	Sol	Spec, Table, Band study	Witkop	JACS 72 (1950)	614
$C_{12}H_{15}N.HCl$	Cyclohexylideneaniline hydrochloride	-	-	Group freq	Witkop	JACS 76 (1954)	5597
$C_{12}H_{15}NO$	1,4-Dimethyl-5-keto-2,3,4,5-tetrahydro-1-benzazepine	-	L	Ident	Astill	JACS 77 (1955)	4079
$C_{12}H_{15}NO$	11-Hydroxy-1,2,3,4,10,11-hexahydrocarbazole	2-12 μ	Sol	Spec, Band freq, Struc	Witkop	JACS 73 (1951)	2188
$C_{12}H_{15}NO$	Spiro-[cyclopentane-1,2'-dihydroindoxyl]	2-11 μ	Sol	Spec, Table	Witkop	JACS 72 (1950)	614

$C_{12}H_{15}NO_2$	700-4000	Sol	Spec, Freq	AdeI fang	JACS	82 (1960)	4241
N-Benzoylmethyl-morpholine	-	-	Band charact, Assign Band charact, Assign	Katritzky Katritzky	SA SA	16 (1960) 16 (1960)	964 954
n-Butyl β (3'-pyridyl) acrylate	800-1500	Sol	Group freq, Struc	Fuson	JOC	18 (1953)	496
1,3-Diacetyl-2,4-dimethylbenzene monoxime	-	-	-	-	-	-	-
N,N-Dimethyl- β -benzoylpropionamide	700-4000	S, Sol	Band, Assign, Struc	Cromwell	JACS	80 (1958)	457
2,3-Dimethyl-5,6-dimethoxyindole	2.5-12 μ	- Sol	Ident Spec, Struc	Neuss Neuss	JACS JACS	75 (1953) 76 (1954)	4870 2463
Isobutyl β -(3'-pyridyl) acrylate	800-1500	Sol	Band charact, Assign Band charact, Assign	Katritzky Katritzky	SA SA	16 (1960) 16 (1960)	964 954
1-Methyl-6,7-dimethoxy-3,4-dihydroisoquinoline	-	Sol	Band freq	Walker	JACS	76 (1954)	3999
1-Phenyl-1-azacycloheptan-4-ol-5-one	-	Sol Sol	Group freq Group freq	Leonard Leonard	JACS JACS	76 (1954) 76 (1954)	630 5708
β -Benzylsulfonyl α -ethylpropionitrile	-	-	Spec not shown	Ross	JACS	73 (1951)	540
β -Phenylsulfonyl α -isopropylpropionitrile	50-3600	S	Spec	Ross	JACS	73 (1951)	540
δ -o-Aminobenzoylvaleric acid	2-12 μ	Sol	Spec, Freq	Witkop	JACS	73 (1951)	2196
n-Butyl β -(3'-pyridine-1-oxide) acrylate	800-3000 800-1500	Sol - Sol	Spec, Freq, I Band charact, Assign Band charact, Assign	Katritzky Katritzky Katritzky	JCS SA SA	- 16 (1960) 16 (1960)	3680 964 954
$C_{12}H_{15}NO_3$.HBr hydrobromide	-	Sol	Band freq	Witkop	JACS	75 (1953)	4474

$C_{12}H_{15}NO_3S$	1-Benzylmercapturic acid	2-15 μ	S	Spec, Struc, Anal	Fuson	JACS 74 (1952)	1
$C_{12}H_{15}NO_4$	N-Benzylxyglutaramic acid	-	S	Group freq	Ames	JCS - (1955)	631
$C_{12}H_{15}NO_4$	Carbobenzoxysarcosine methyl ester	1350-1550	L	Spec, Ident	Watson	SA 16 (1960)	1322
$C_{12}H_{15}NO_4$	p-Nitrobenzyl isovalerate	-	-	Ident	Regna	JACS 75 (1953)	4625
$C_{12}H_{15}NO_4S$	p-Diacetylaminoethyl-phenyl methyl sulfone	-	S	Substitution effect	Momose	CPBT 6 (1958)	412
$C_{12}H_{15}NO_5$	2,4-Dicarbethoxy-3-methylpyrrole-5-aldehyde	500-4000	Sol,S	Spec, Struc, Freq	Eisner	JCS - (1958)	971
$C_{12}H_{15}NO_5S$	p-Formylaminomethylphenyl ethoxycarbonylmethyl sulfone	-	S	Substitution effect	Momose	CPBT 6 (1958)	412
$C_{12}H_{15}NO_6$	Ethyl 2-nitro-4,5-dimethoxyphenylacetate	-	Sol	Freq	Walker	JACS 77 (1955)	3844
$C_{12}H_{15}NS$	β -Benzylmercapto α -ethyl propionitrile	-	-	Spec - not shown	Ross	JACS 73 (1951)	540
$C_{12}H_{15}NS$	β -Phenylmercapto- α -isopropylpropionitrile	-	-	Spec - not shown	Ross	JACS 73 (1951)	540
$C_{12}H_{15}N_2O_5P \cdot H_2O$	N-Phosphoryl-DL-tryptophan methyl ester hydrate	3-15 μ	L,S	Spec, Freq	Li	JACS 77 (1955)	3519
$C_{12}H_{15}N_2O_2$	5-Methoxy-3-methylindanone semicarbazone	-	S	Ident	Conover	JACS 75 (1953)	4017
$C_{12}H_{15}N_2O_2$	5-(1-Methylpropyl)-5-(2-pyridyl)hydantoin (mp 185°-8°)	2-14 μ	S	Spec, Band freq, Iso	Henze	JOC 19 (1954)	1127

$C_{12}H_{15}N_3O_2$	5-(1-Methylpropyl)-5-(2-pyridyl)hydantoin (mp 231-3°)	2-14 μ	S	Spec, Band freq, Iso	Henze	JOC	19 (1954)	1127
$C_{12}H_{15}N_3O_3$	Hexahydro-1,3,5-triacrylyl-s-triazine	650-3500	S	Spec Ident	Gradsten Emmons	JACS	70 (1948)	3079
$C_{12}H_{15}N_3O_6$	DNP-DL-leucine	625-5000	S	Spec, Ident	Friedberg	CJC	37 (1959)	1469
$C_{12}H_{15}N_3O_6$	DNP-DL-isoleucine	625-5000	S	Spec, Ident	Friedberg	CJC	37 (1959)	1469
$C_{12}H_{15}N_3O_6$	DNP-L-leucine	625-5000	S	Spec, Ident	Friedberg	CJC	37 (1959)	1469
$C_{12}H_{15}N_3O_6$	DNP-L-isoleucine	625-5000	S	Spec, Ident	Friedberg	CJC	37 (1959)	1469
$C_{12}H_{15}N_5O_7$	3,6-Dimethyltetrahydropyridazine picrate	2-15 μ	-	Ident	Overberger	JACS	77 (1955)	4100
$C_{12}H_{15}O_3$	1-Ethoxy-1-gluciacylpropanone-2	600-4000	S	Spec, Freq	Herzert	JOC	25 (1960)	405
$C_{12}H_{16}$	bis-Hexatriene dimer	1150-1800	-	Spec	Barnes	IEC	15 (1943)	659
$C_{12}H_{16}$	n-Butylcyclooctatetraene	2-16 μ	L	Spec	Cope	JACS	74 (1952)	175
$C_{12}H_{16}$	Cyclohexylbenzene	-	Sol	Freq, Substitution effect	Potts	AC	27 (1955)	1027
$C_{12}H_{16}BrO_4$	exo-cis-4,5-dibromo-endo-cis-3,6-endo-methylenehexahydrophthalic acid-1-methyl-2-ethyl ester	-	Sol	Ident	Berson	JACS	76 (1954)	4069
$C_{12}H_{16}Cl_2$	3,3'-Dichloro-1,1'-bi-2,2'-cyclohexene	-	-	Ident	Lindsey	JACS	75 (1953)	5613

$C_{12}H_{16}INOS$	N-(α -Methylthiobenzyl- idene)morpholine iodide	-	Sol	Group freq	Goulden	JCS - (1953)	997
$C_{12}H_{16}N_2$	N-Ethyl-N-cyanoethyl- m-toluidine	-	-	Spec	Merian	HCA 43 (1960)	1122
$C_{12}H_{16}N_2$	2,4-Hexadienalazine	1400-2000	S	Spec	Blout	JACS 70 (1948)	194
$C_{12}H_{16}N_2$	N-Methylgramine	2900-3100	Sol	Group freq	Hill	JCS - (1958)	760
$C_{12}H_{16}N_2O$	γ -Acetyl- γ -isopropenyl -pimelonitrile	700-4000	S	Spec, Struc, Anal	Frank	JACS 71 (1949)	1387
$C_{12}H_{16}N_2O$	N-Methylcytisine	-	Sol	Group freq	Marion	JACS 73 (1951)	305
$C_{12}H_{16}N_2O$	N-Methylcytisine perchlorate	-	-	Band and group freq	Thyagarajan	CR 54 (1954)	1019
$C_{12}H_{16}N_2O$	N-Methyl-dihydro- peganine	600-4000	S	Spec	Heacock	CJC 34 (1956)	1782
$C_{12}H_{16}N_2O$	N-Methyl-dihydro- peganine	600-4000	S	Spec	Heacock	CJC 34 (1956)	1782
$C_{12}H_{16}N_2O_2$	δ -Benzylidene-dl- ornithine	-	Sol	Band freq	Witkop	JACS 75 (1953)	74
$C_{12}H_{16}N_2O_2$	δ -Benzylidene-l- ornithine	-	S	Group freq, I	Witkop	JACS 76 (1954)	5589
$C_{12}H_{16}N_2O_2$	δ -Benzylidene-l- ornithine	-	S	Group freq, I	Witkop	JACS 76 (1954)	5589
$C_{12}H_{16}N_2O_2$	2,3,4,7,8,9-Hexahydro-3,8- dimethylbenzo-1,2-3,4,3- e [bis-m-oxazine]	2-15 μ	S	Spec	Burke	JACS 72 (1950)	4691
$C_{12}H_{16}N_2O_3$	Cyclobarbitol	2-16 μ	Sol	Spec, Table, Freq Ident	Umberger Cleverley	AC 24 (1952) ANA 85 (1960)	1309 582
$C_{12}H_{16}N_2O_3$	α -Ethylcarboxy- β -methyl- glycolaldehyde phenyl- hydrate	650-4000	S, Sol	Struct	Tanner	SA 15 (1959)	20

Formula	Hexobarbital	2-16 μ	Sol	Spec, Table, Freq Ident	Umberger Cleverley	AC ANA	24 (1952) 85 (1960)	1309 582
C ₁₂ H ₁₆ N ₂ O ₃	δ N-Salicylidene-dl-ornithine	-	-	Group freq, I	Witkop	JACS	76 (1954)	5589
C ₁₂ H ₁₆ N ₂ O ₃	δ N-Salicylidene-l-ornithine	-	S	Group freq, I	Witkop	JACS	76 (1954)	5589
C ₁₂ H ₁₆ N ₂ O ₄	2-Phenylursido-4-hydroxyvaleric acid	2-11 μ	S	Spec, Group freq	Hurd	JOC	18 (1953)	1440
C ₁₂ H ₁₆ N ₄ O ₄	2-Ethylbutyraldehyde 2,4-dinitrophenylhydrazone	6-15 μ	S	Spec, Table	Ross	AC	25 (1953)	1288
C ₁₂ H ₁₆ N ₄ O ₄	n-Hexaldehyde 2,4-dinitrophenylhydrazone	6-15 μ 2-15 μ	Sol, S	Spec, Table Band spec, Ident	Ross Jones	AC AC	25 (1953) 28 (1956)	1288 191
C ₁₂ H ₁₆ N ₄ O ₄	Methyl isobutyl ketone-2,4-dinitrophenylhydrazone	6-15 μ	S	Spec, Table	Ross	AC	25 (1953)	1288
C ₁₂ H ₁₆ N ₄ O ₅	4-Hydroxy-4-methyl-2-pentanone 2,4-dinitrophenylhydrazone	2-15 μ	S	Band spec, Ident	Jones	AC	28 (1956)	191
C ₁₂ H ₁₆ N ₅ O ₈ P	2(3')-Acetyl-5'-adenylate	2-9 μ	Sol	Spec, Freq, Reactivity	Jencks	ABB	88 (1960)	193
C ₁₂ H ₁₆ N ₅ O ₈ P	Acetyladenyate	2-9 μ	Sol	Spec, Freq, Reactivity	Jencks	ABB	88 (1960)	193
C ₁₂ H ₁₆ N ₆ O ₆	DNP-L-Arginine	625-5000	S	Spec, Ident	Friedberg	CJC	37 (1959)	1469
C ₁₂ H ₁₆ O	2-Allyl-3,5,6-trimethylphenol	2.7-2.9 μ	Sol	Group freq	Baker	JACS	81 (1959)	4524

$C_{12}H_{16}O$	α -2-Butoxystyrene	5.5-9 μ	Sol	Spec, Anal, Group freq	Wiberg	JACS 77 (1955)	1159
$C_{12}H_{16}O$	m-t-Butylaceto- phenone	-	-	Ident	Butler	JACS 76 (1954)	1906
$C_{12}H_{16}O$	o-t-Butylaceto- phenone	-	-	Ident	Butler	JACS 76 (1954)	1906
$C_{12}H_{16}O$	p-t-Butylaceto- phenone	2-15 μ	L	Ratio o:m:p in mixt, Spec	Butler	JACS 76 (1954)	1906
$C_{12}H_{16}O$	4-Cyclohexylphenol	650-1400	Sol	Spec	Shrewsbury	SA 16 (1960)	1294
$C_{12}H_{16}O$	o-Cyclohexylphenol	2.5-15 μ	Sol	Spec, Band freq, Table, I	Friedel	JACS 73 (1951)	2881
$C_{12}H_{16}O$		650-1400	Sol	Spec	Shrewsbury	SA 16 (1960)	1294
$C_{12}H_{16}O$	p-Cyclopentylanisole	-	-	Anal, Ident	Curtin	JACS 77 (1955)	1105
$C_{12}H_{16}O$	Cyclopropylethylphenyl- carbinol	1-2.7 μ	Sol	Group study	Washburn	JACS 80 (1958)	504
$C_{12}H_{16}O$	2,6-Dimethyl-4(α -methyl- allyl)phenol	800-3600	L	Spec, Group freq	Marvell	JACS 76 (1954)	1922
$C_{12}H_{16}O$	2,6-Dimethyl-4(γ -methyl- allyl)phenol	850-3600	L	Spec, Group freq	Marvell	JACS 76 (1954)	1922
$C_{12}H_{16}O$	Hexanophenone	1600-1800	Sol	Group freq	Fuson	JACS 76 (1954)	2526
$C_{12}H_{16}O$	2-Hydroxymethyl-5-methyl- 1,2,3,4-tetrahydro- naphthalene	-	-	Group freq	Bentley	JCS - (1955)	2398
$C_{12}H_{16}O$	α -Methylallyl 2,6- dimethylphenyl ether	700-3100	L	Spec, Group freq	Marvell	JACS 76 (1954)	1922

$C_{12}H_{16}O$	700-3100	Spec, Group freq	Marvell	JACS	76 (1954)	1922
γ -Methylallyl 2,6-dimethylphenyl ether	-	Spec, Group freq	Marvell	JACS	76 (1954)	1922
$C_{12}H_{16}O$ 3-Methyl-3-phenyl-2-pentanone	2-14.5 μ L	Spec, Anal	Cram	JACS	74 (1952)	5839
$C_{12}H_{16}O$ 4-Methyl-4-phenyl-2-pentanone	-	Ident	Barnes	JACS	76 (1954)	5430
$C_{12}H_{16}O$ β -Methylvalerophenone	-	Sol Anal, Group freq, I	Wiberg	JACS	77 (1955)	1159
$C_{12}H_{16}O$ 3-Phenylcyclohexanol	-	Sol Group freq, Substitution effect	Potts	AC	27 (1955)	1027
$C_{12}H_{16}O$ cis-4-Phenylcyclohexanol	2.7-3.2 μ Sol	H bond	Pickett	JACS	71 (1949)	1311
$C_{12}H_{16}O$ trans-4-Phenylcyclohexanol	12.6-3.2 μ Sol	H bond	Pickett	JACS	71 (1949)	1311
$C_{12}H_{16}O$ 1-Phenyl-2,2-dimethyl-1-butanone	2-14.5 μ L	Spec, Anal	Cram	JACS	74 (1952)	5839
$C_{12}H_{16}O$ Propyl p-xylyl ketone	1600-1800 Sol	Group freq	Fuson	JACS	76 (1954)	2526
$C_{12}H_{16}O$ 2,3,5,6-Tetramethylacetophenone	- Sol	Freq, H bond, I	Forbes	CJC	35 (1957)	488
$C_{12}H_{16}O$ o-Tolyl isobutyl ketone	- Sol	Freq, I	Jones	CJC	35 (1957)	504
$C_{12}H_{16}O$ o-Tolyl n-butyl ketone	-	Group freq	Pickard	JACS	76 (1954)	5169
$C_{12}H_{16}O$ o-Tolyl s-butyl ketone	-	Group freq	Pickard	JACS	76 (1954)	5169
$C_{12}H_{16}O_2$ o-t-Butylphenyl acetate	-	Group freq	Pickard	JACS	76 (1954)	5169
$C_{12}H_{16}O_2$ 3,3-Dimethyl-1-phenoxy-2-butanone	-	Ident, Band freq	Rondestvedt	JACS	77 (1955)	1769
$C_{12}H_{16}O$ 1,2-Epoxy-2-methyl-1-ethoxy-1-phenylpropane	L	Group freq	Leonard	JACS	77 (1955)	3272
$C_{12}H_{16}O$	-	Ident	Stevens	JACS	76 (1954)	715

$C_{12}H_{16}O_2$	Isopropyl β -phenyl propionate	800-1500	Sol	Band charact, Assign Band charact, Assign	Katritzky Katritzky	SA 16 (1960) SA 16 (1960)	954 964
$C_{12}H_{16}O_2S$	Butylthio o-methoxybenzoate	2.5-16 μ	Sol	Struct, Freq	Nyquist	SA 15 (1959)	514
$C_{12}H_{16}O_3$	4-Acetyl-2,5-dihydro-3-methyl-5-oxofuran 2-spirocyclohexane	1000-1800	Sol	Spec, Freq	Lacey	JCS - (1960)	3153
$C_{12}H_{16}O_3$	Calythrone	-	-	Group and H bond study	Birch	JCS - (1951)	3026
$C_{12}H_{16}O_3$	1,3-Diethoxyphthalan	2-16 μ	Sol	Spec, Group freq	Powell	JOC 18 (1953)	810
$C_{12}H_{16}O_3$	trans-1,4-Dihydroxy-2-methoxy-10-methyl- $\Delta^{2,6}$ -hexahydronaphthalene	2-12 μ	Sol	Spec	Woodward	JACS 74 (1952)	4223
$C_{12}H_{16}O_3$	trans-1,4-Diketo-2-methoxy-10-methyl- Δ^2 -octahydronaphthalene	2-13 μ	Sol	Band freq	Woodward	JCS - (1952)	4223
$C_{12}H_{16}O_3$	Ethyl 4,5,6,7-tetrahydro-3-oxoindane-1-carboxylate	-	-	Group freq	Mathieson	JCS - (1953)	3251
$C_{12}H_{16}O_3$	Δ^4 -2-Methoxy-9-methyl-octalin-3,8-dione	-	Sol	Group study	Szmuszkowicz	JOC 19 (1954)	1424
$C_{12}H_{16}O_3$	Δ^4 -4-Methoxy-9-methyl-octalin-3,8-dione	-	Sol	Group study	Szmuszkowicz	JOC 19 (1954)	1424
$C_{12}H_{16}O_3$	Methyl 3-keto-1,2,3,4,5,6,7,8-octahydro-1-azulone	-	-	Struc	Anderson	JACS 75 (1953)	4979

Formula	Chemical Name	Wavenumber	Source	Struc	Author	Year	Page
C ₁₂ H ₁₆ O ₄	1-Allyloxy-2,4,6-trimethylbenzene	-	-		Burkhard	JACS	75 (1953) 5957
C ₁₂ H ₁₆ O ₄	Ethyl bicyclo[3.1.0]hex-2-ene-6,6-dicarboxylate	-	-	Group freq, Struc	Kierstead	JCS	- (1953) 1803
C ₁₂ H ₁₆ O ₄	Ethyl 2,7-dimethoxy-cycloheptatriene-carboxylate	746-1742	S	Table	Johns	JOS	- (1954) 4605
C ₁₂ H ₁₆ O ₆	Phenyl α-D-galactoside	-	S	Anal, Band freq, I	Whistler	AC	25 (1953) 1463
C ₁₂ H ₁₆ O ₆	Phenyl β-D-galactoside	-	S	Anal, Band freq, I	Whistler	AC	25 (1953) 1463
C ₁₂ H ₁₆ O ₆ ·2H ₂ O	Phenyl α-D-glucoside dihydrate	-	S	Band freq, I	Whistler	AC	25 (1953) 1463
C ₁₂ H ₁₆ O ₆ ·2H ₂ O	Phenyl β-D-glucoside dihydrate	-	S	Band freq, I	Whistler	AC	25 (1953) 1463
C ₁₂ H ₁₆ O ₇	d-Glucal-3,4,6-triacetate	2-15 μ	S	Spec	Kuhn	AC	22 (1950) 276
C ₁₂ H ₁₆ O ₈	Lavoglucosan triacetate	8-15 μ	S	Spec	Kuhn	AC	22 (1950) 276
C ₁₂ H ₁₇ BrN ₆ O ₂ ·HBr	3,5'-Cyclo-6-dimethyl-amino-9-(3'-amino-3'-deoxy-β-D-ribofuranosyl) purine bromide hydrobromide	-	S	Group freq	Baker	JACS	77 (1955) 15
C ₁₂ H ₁₇ Cl ₃ OSi	Trichlorosilylhexyl phenyl ether	-	-	Inductive effect	Josien	CPR	249 (1959) 826
C ₁₂ H ₁₇ N	δ-Cyclooctatetraenyl-n-butylamine	2-16 μ	I	Spec	Cope	JACS	75 (1953) 3220
C ₁₂ H ₁₇ N	N,N-Dimethyl-β-cyclooctatetraenylethylamine	2-16 μ	I	Spec, Assign	Cope	JACS	75 (1953) 3215

$C_{12}H_{17}N$	o-Tolyl isobutyl ketimine	-	-	Group freq	Pickard	JACS 76 (1954)	5169
$C_{12}H_{17}N$	o-Tolyl n-butyl ketimine	-	-	Group freq	Pickard	JACS 76 (1954)	5169
$C_{12}H_{17}N$	o-Tolyl s-butyl ketimine	-	-	Group freq	Pickard	JACS 76 (1954)	5169
$C_{12}H_{17}N \cdot HCl$	N-Benzylpiperidine hydrochloride	600-4000	S	Freq, Assign	Stone	JCS - (1958)	52
$C_{12}H_{17}NO$	1-N-Anilino-3,3-dimethyl-2-butanone	-	L	Group freq	Leonard	JACS 77 (1955)	3272
$C_{12}H_{17}NO$	N-Butylacetanilide	2-16 μ	Sol	Spec, Anal	Sassaman	APS 8 (1954)	67
$C_{12}H_{17}NO$	N-t-Butylphenylacetamide	1500-3600 3 μ	Sol, S Sol	Assign, Spec Band study	Richards Russel	JCS - (1947) SA 8 (1956)	1248 138
$C_{12}H_{17}NO$	6-Cyanoethylisophorone	5.5-8 μ	Sol	Group freq	Bruson	JACS 75 (1953)	3585
$C_{12}H_{17}NO$	3-Cyano-2-methoxy-camph-2-ene	-	Sol	Band freq	Chase	JCS - (1953)	3518
$C_{12}H_{17}NO$	m-N,N-Diethyltoluamide	7-15 μ	Sol	Spec, Iso	Clarke	AC 31 (1959)	197
$C_{12}H_{17}NO$	o-N,N-Diethyltoluamide	7-15 μ	Sol	Spec, Iso	Clarke	AC 31 (1959)	197
$C_{12}H_{17}NO$	p-N,N-Diethyltoluamide	7-15 μ	Sol	Spec, Iso	Clarke	AC 31 (1959)	197
$C_{12}H_{17}NO$	1,4-Dimethyl-5-hydroxy-2,3,4,5-tetrahydro-1-benzazepine	-	L	Group freq	Astill	JACS 77 (1955)	4079
$C_{12}H_{17}NO$	N-Methyl- β -phenyl valeramide	-	-	Group freq	Leonard	JACS 75 (1953)	3727

$C_{12}H_{17}NO$		Sol	Table-major bands	Witkop	JACS	72 (1950)	614
$C_{12}H_{17}NO$	7', 8', 9', 10'- Tetrahydrospiro- [cyclopentane-1, 2'- ψ - indoxyl]	-					
$C_{12}H_{17}NO_2$	N,N-Dimethyl- γ -hydroxy- γ -phenylbutyramide	S	1500-3500 Band Assign, Struct	Cromwell	JACS	80 (1958)	4578
$C_{12}H_{17}NO_2$	6,7-Dimethoxy-N-methyl- 1,2,3,4-tetrahydro- isoquinoline	S	Band freq	Wildman	JACS	77 (1955)	1248
$C_{12}H_{17}NO_2$	Ethyl α -ethylamino- phenylacetate	-	Group freq	Leonard	JACS	75 (1953)	372
$C_{12}H_{17}NO_2$	N-ethyl-o-ethoxy- acetanilide	L,Sol	2-15 μ Spec	Park	JACS	73 (1951)	5898
$C_{12}H_{17}NO_2$	N-ethyl-p-ethoxy- acetanilide	L,Sol	2-15 μ Spec	Park	JACS	73 (1951)	5898
$C_{12}H_{17}NO_2S$	N-cyclohexylbenzene- sulfonamide	Sol	2800-3500 Spec, H bond	Buswell	JACS	61 (1939)	3252
$C_{12}H_{17}NO_2S$	p-Tolylsulphonyl- piperidide	Sol	1100-1400 Spec, Freq	Bavin	SA	16 (1960)	1312
$C_{12}H_{17}NO_3$	4-Acetyl-2-carbethoxy- 3-ethyl-5-methylpyrrole	Sol,S	500-4000 Spec, Freq, Assign	Eisner	JCS	- (1958)	971
$C_{12}H_{17}NO_3$	N-Acetylhomoveratryl- amine	S	Band freq	Wildman	JACS	77 (1955)	1248
$C_{12}H_{17}NO_3$	4a-Carbethoxy-1,2,3,4, 4a,5,6,7-octahydro- 7-quinolone	-	Band study	Albertson	JACS	74 (1952)	249
$C_{12}H_{17}NO_3$	5-Carbethoxy-3,4- diethylpyrrole-2- aldehyde	Sol,S	500-4000 Spec, Freq, Assign	Eisner	JCS	- (1958)	971

$C_{12}H_{17}NO_3S$	2,2-(2'-Carboxycyclohexylidene)-4-thiazolidone ethyl ester	-	Sol	Group freq	Pennington	JACS 75 (1953)	109
$C_{12}H_{17}NO_4$	2,3-Dicarbethoxy-4,5-dimethylpyrrole	500-4000	S	Spec, Freq, Assign	Eisner	JCS - (1958)	971
$C_{12}H_{17}NO_4$	2,5-Dicarbethoxy-3,4-dimethylpyrrole	500-4000	Sol,S	Spec, Freq, Assign	Eisner	JCS - (1958)	971
$C_{12}H_{17}NO_4$	3,5-Dicarbethoxy-2,4-dimethylpyrrole	500-4000	Sol,S	Spec, Freq, Assign	Eisner	JCS - (1958)	971
$C_{12}H_{17}NO_4$	3,4-Diethyl-2-carbethoxy-pyrrole-5-carboxylic acid	500-4000	Sol,S	Spec, Freq, Assign	Eisner	JCS - (1958)	971
$C_{12}H_{17}NO_4$	2,5-Dicarboethoxy-3,4-diethylpyrrole	500-4000	Sol,S	Spec, Freq, Assign	Eisner	JCS - (1958)	971
$C_{12}H_{17}N_3O_4$	Pyrazine-2,3-dicarboxylic acid, 3- β -diethylamino-ethyl ester	1500-2000	S	Spec, Group freq	Solomons	JACS 75 (1953)	679
$C_{12}H_{17}N_5O_4$	6-Dimethylamino-9- β -D-ribofuranosylpurine	-	S	Group freq	Kissman	JACS 77 (1955)	18
$C_{12}H_{18}$	m-t-Amyltoluene	2-15 μ	L	Spec, Anal	Schlatter	JACS 75 (1953)	361
$C_{12}H_{18}$	p-t-Amyltoluene	2-15 μ 7.61-13.82 μ	L	Spec, Anal Table, Anal	Schlatter Pines	JACS 75 (1953) JACS 77 (1955)	361 554
$C_{12}H_{18}$	p-t-Butylethylbenzene	2-15 μ	L	Spec, Anal	Schlatter	JACS 75 (1953)	361
$C_{12}H_{18}$	m-Diisopropylbenzene	3-15 μ	L	Spec, Table	Melpolder	JACS 70 (1948)	935
		-	-	Absorbance	Bomstein	AC 25 (1953)	512
		-	-	Group freq, Struc	O'Connor	JACS 76 (1954)	2368
		700-1000	S,Sol	Substitution effect	Bellamy	JCS - (1955)	2818

C ₁₂ H ₁₈	o-Diisopropylbenzene	3-15 μ	L	Spec, Table Absorbance Group freq, Struc	Melpolder Bomstein O'Connor	JACS AC JACS	70 (1948) 25 (1953) 76 (1954)	935 512 2368
C ₁₂ H ₁₈	p-Diisopropylbenzene	3-14 μ 829	L Sol	Spec, Table Substitution effect Absorbance Struc, Group freq Solvent effect Freq	Melpolder Philpotts Bomstein O'Connor La Iau Puttnam	JACS AC AC JACS SA JCS	70 (1948) 23 (1951) 25 (1953) 76 (1954) 14 (1959) - (1960)	935 268 512 2368 181 2934
C ₁₂ H ₁₈	1,3-Dimethyl-4-isobutylbenzene	-	-	Ident	Nightingale	JACS	76 (1954)	5767
C ₁₂ H ₁₈	1,3-Dimethyl-4-sec-butylbenzene	-	-	Ident	Nightingale	JACS	76 (1954)	5767
C ₁₂ H ₁₈	1,3-Dimethyl-5-isobutylbenzene	-	-	Ident	Nightingale	JACS	76 (1954)	5767
C ₁₂ H ₁₈	1,3-Dimethyl-5-t-butylbenzene	700-1000	Sol Sol,S	Spec, Freq, Assign Substitution effect	McCoulay Bellamy	JACS JCS	76 (1954) - (1955)	2354 2818
C ₁₂ H ₁₈	1,3-Dimethyl-2,4-dimethylbenzene	-	-	Charact band & Freq, Ident	Schlatter	JACS	76 (1954)	4952
C ₁₂ H ₁₈	1,3-Dimethyl-2,5-dimethylbenzene	-	-	Ident	Schlatter	JACS	76 (1954)	4952
C ₁₂ H ₁₈	2,3-Dimethyldecalin	-	-	Band freq	Bailey	JACS	77 (1955)	990
C ₁₂ H ₁₈	2,2-Dimethyl-3-phenylbutane	2-15 μ	L	Anal, Ident Spec	Schmerling Hawkes	JACS SA	76 (1954) 16 (1960)	1917 633
C ₁₂ H ₁₈	1-Ethyl-3-t-butylbenzene	700-1000	S,Sol	Substitution effect	Bellamy	JACS	- (1955)	2818
C ₁₂ H ₁₈	Hexamethylbenzene	650-2200	S	Thermo Spec	Kassel Cannon	JCP SA	4 (1936) 4 (1951)	276 373

	5-6 μ	Sol	Spec	Yong	AC	23	(1951)	709
	700-3400	S	Spec, Anal	Mann	PRS	211	(1952)	168
	640-1400	Sol	Spec	Haller	JCF	22	(1954)	720
	900-1500	Sol	Group study	Randle	JCS	-	(1955)	3497
	7.2-14.2 μ	L	Spec, Anal, Iso	Pines	JACS	75	(1953)	2311
	-	L	Group freq	Potts	AC	27	(1955)	1027
	2-15 μ	L	Spec, Struc	Hawkes	SA	16	(1960)	633
	6.8-14.8 μ	L	Spec, Anal, Iso	Pines	JACS	75	(1953)	2311
	2-15 μ	L	Spec, Struc	Hawkes	SA	16	(1960)	633
	6.8-14.8 μ	L	Spec, Anal, Iso	Pines	JACS	75	(1953)	2311
	2-15 μ	L	Spec, Struc	Hawkes	SA	16	(1960)	633
	2-15 μ	L	Spec, Struc	Hawkes	SA	16	(1960)	633
	2-15 μ	L	Spec, Struc	Hawkes	SA	16	(1960)	633
	-	-	Ident	Schmerling	JACS	77	(1955)	1774
	7.2-14.2 μ	L	Spec, Anal, Iso	Pines	JACS	75	(1953)	2311
	2-15 μ	L	Spec, Struc	Hawkes	SA	16	(1960)	633
	700-1400	L	Spec, Anal, Iso	Pines	JACS	75	(1953)	2311
	2-15 μ	L	Spec, Struc	Hawkes	SA	16	(1960)	633
	7.20-14.18 μ	-	Table, Anal	Pines	JACS	77	(1955)	554
	7.56-13.76 μ	-	Table, Anal	Pines	JACS	77	(1955)	554
	8.57-14.24 μ	-	Table, Anal	Pines	JACS	77	(1955)	554
	7.61-12.27 μ	-	Table, Anal	Pines	JACS	77	(1955)	554
	-	Sol	Spec, Freq, Assign	McCaulay	JACS	76	(1954)	2354

		2-15 μ	L	Spec, Struc, Anal	Park	JACS	71 (1949)	2337
$C_{12}H_{18}F_4O_2$	1,2-Di-n-butoxy-3,3,4,4-tetrafluorocyclobutene							
$C_{12}H_{18}F_6O_5B_2$	Ditrifluoroacetyl di-n-butyl diborate	1500-1800	S	Freq, Assign, Bond study	Duncanson	JOS	-	(1958) 3652
$C_{12}H_{18}IP$	1-Ethyl-1,2,3,4-tetrahydro-1-methylphosphorinolinium iodide	-	S	Group freq	Mann	JOS	-	(1952) 3039
$C_{12}H_{18}I_2$	Hexamethylbenzene iodine complex	-	-	Mol const	Morcillo	ARS	56	(1960) 263
$C_{12}H_{18}N_2 \cdot 2HCl$	N-Benzyl-N'-methyl piperazine dihydrochloride	600-4000	S	Freq, Assign	Stone	JOS	-	(1958) 52
$C_{12}H_{18}N_2O_5S$	5-Ethyl-5-(1-methylpentenyl-4)-2-thio-barbituric acid	-	-	Struc	Wood	JACS	75	(1953) 5511
$C_{12}H_{18}N_2O_2S$	Thiamylal	-	-	Ident	Cleverley	ANA	85	(1960) 582
$C_{12}H_{18}N_2O_3$	5-Ethyl-5-(1-methylpentenyl-4)-2-barbituric acid	-	-	Struc	Wood	JACS	75	(1953) 5511
$C_{12}H_{18}N_2O_3$	Secobarbital	2-16 μ 2.5-16 μ	Sol S	Spec, Table, Freq Spec, Anal Ident	Umberger Levi Cleverley	AC AC ANA	24 28 85	(1952) 1309 (1956) 1591 (1960) 582
$C_{12}H_{18}N_4O$	N,N,O-Tri-(2-cyano-2-propyl)hydroxylamine	-	-	Group & Band freq, Band & Group freq	Gingras Gingras	JOS JOS	-	(1954) 1920 (1954) 3508
$C_{12}H_{18}N_4O_5$	p,p'-Dinitroazoxybenzene	1300-1600	Sol,S	Substitution effect	Kross	JACS	78	(1956) 4225
$C_{12}H_{18}N_4O_5S$	4-Acetamido-6-D-xylosidamino-2-methylthiopyrimidine	1450-1800	S	H bond, Spec	Brownlie	JOS	-	(1948) 2265

$C_{12}H_{18}N_4O_5S$	4-D-Xylosidamino-6-acetamido-2-methylthio-pyrimide	2-15 μ	S	Spec, Group freq, Assign	Brownlie	JCS - (1950) 3062
$C_{12}H_{18}N_4O_7$	Triethylamine picrate	-	Sol	Group freq	Barrow	JACS 76 (1954) 5211
$C_{12}H_{18}N_6O_3$	6-Dimethylamino-9-(3'-amino-3'-deoxy- α -D-ribofuranosyl)purine	-	-	Group study	Baker	JACS 77 (1955) 2396
$C_{12}H_{18}O$	o-Amylanisol	-	-	Ident	Morton	JACS 76 (1954) 2980
$C_{12}H_{18}O$	2-t-Amyl-4-methylphenol	-	-	Freq shift	Coggeshall	JACS 69 (1947) 1620
$C_{12}H_{18}O$	2-s-Butyl-1-methoxy-4-methylbenzene	900-1030	Sol	Freq	Puttnam	JCS - (1960) 2934
$C_{12}H_{18}O$	4-s-Butyl-1-methoxy-2-methylbenzene	900-1030	Sol	Freq	Puttnam	JCS - (1960) 2934
$C_{12}H_{18}O$	2-t-Butyl-4-ethylphenol	650-1400	Sol	Spec	Shrewsbury	SA 16 (1960) 1294
$C_{12}H_{18}O$	2,4-Dimethyl-6-t-butylphenol	3 μ	Sol, L	H bond	Sears	JACS 71 (1949) 4110
		-	Sol	Spec	Goddu	JACS 82 (1960) 4533
		650-1400	Sol	Spec	Shrewsbury	SA 16 (1960) 1294
$C_{12}H_{18}O$	2,6-Dimethyl-4-t-butylphenol	3 μ	S, Sol	Spec, Freq shift	Coggeshall	JACS 69 (1947) 1620
$C_{12}H_{18}O$	$\Delta^{1,9}$ -5,5-Dimethyl-2-octalone	800-3000	Sol	Spec	Armour	HCA 42 (1959) 2233
$C_{12}H_{18}O$	Δ^8 -5,5-Dimethyl-8-octalone	800-3000	Sol	Spec	Armour	HCA 42 (1959) 2233
$C_{12}H_{18}O$	Δ^9 -5,5-Dimethyl-2-octalone	1100-3000	Sol	Spec	Armour	HCA 42 (1959) 2233
$C_{12}H_{18}O$	2,4-Di-isopropylphenol	650-4000	Sol	Spec	Shrewsbury	SA 16 (1960) 1294

$C_{12}H_{18}O$	2,5-Di-isopropylphenol	650-4000	Sol	Spec	Shrewsbury	SA	16 (1960)	1294
$C_{12}H_{18}O$	2,6-Di-isopropyl-2-phenol	3500-3800 650-1400	Sol Sol	Freq Spec	Puttnam Shrewsbury	JCS SA	- 16	(1960) 5100 (1960) 1294
$C_{12}H_{18}O$	4-Ethyl-1-methoxy-2-isopropylbenzene	900-1030	Sol	Freq	Puttnam	JCS	-	(1960) 2934
$C_{12}H_{18}O$	n-Hexyl phenyl ether	-	-	Group freq	Hales	JCS	-	(1954) 3145
$C_{12}H_{18}O$	L-Erythro-4-phenyl-3-hexanol	-	L	Anal	Cram	JACS	75	(1953) 3189
$C_{12}H_{18}O$	p-Methoxy-t-amylbenzene	1050-1850	-	Spec, Absorption, Freq	Barnes	IEC	15	(1943) 659
$C_{12}H_{18}O$	L-Threo-4-phenyl-3-hexanol	-	L	Anal	Cram	JACS	75	(1953) 3189
$C_{12}H_{18}O_2$	α -Ethoxyumbellulone	-	L	Group freq	Eastman	JACS	76	(1954) 4118
$C_{12}H_{18}O_2$	Ethyl dec-trans-2-en-4-ynoate	-	L L	Group freq Group freq	Crombie Crombie	JCS JCS	- -	(1955) 999 (1955) 1007
$C_{12}H_{18}O_2$	2-Hydroxymethyl-4-t-butyl-6-methylphenol	2-15 μ	Sol, S	Spec	Sprengling	JACS	72	(1950) 4314
$C_{12}H_{18}O_2$	ι - α -Phenylethyl-5-butyl peroxide	-	-	Band study	Kornblum	JACS	74	(1952) 3079
$C_{12}H_{18}O_2$	3,4,8-Trimethyl[3,3,0]bicyclo-3-octene-1-carboxylic acid	-	-	Ident	Stork	JACS	75	(1953) 3292
$C_{12}H_{18}O_3$	trans-10-Carbomethoxy-2-decalone	5.79-10.72 μ	Sol	Table, I	Dreiding	JACS	77	(1955) 411
$C_{12}H_{18}O_3$	cis-3-Carboxy-10-methyl-2-decalone	6.6-10.5 μ	Sol	Table, Freq, I	Dreiding	JOC	19	(1954) 241

$C_{12}H_{18}O_3$	trans-3-Carboxy-10-methyl-2-decalone	6.0-10.4 μ	Sol	Table, Freq, I	Dreiding	JOC	19 (1954)	241
$C_{12}H_{18}O_3$	2,6-Di(hydroxymethyl)-4-t-butylphenol	3100-3700	S,Sol	Assign, Spec	Richards	JCS	- (1947)	1260
$C_{12}H_{18}O_3$	Hexamethylphloroglucinol	2-12 μ	Sol	Spec, Struc	O'Connor	JACS	76 (1954)	2368
$C_{12}H_{18}O_3$	trans-1-Hydroxy-4-keto-10-methyl- Δ^2 -octahydronaphthalene	2-12 μ	Sol	Band freq	Woodward	JACS	74 (1952)	4223
$C_{12}H_{18}O_3$	7-Phenyl-3,6-dioxoactan-1-ol	-	Sol	Freq, Substitution effect	Potts	AC	27 (1955)	1027
$C_{12}H_{18}O_3$	1,2,3-Triethoxybenzene	700-5000	L	Group freq	Briggs	AC	29 (1957)	904
$C_{12}H_{18}O_3$	1,3,5-Triethoxybenzene	700-1000	Sol	Substitution effect	Bellamy	JCS	- (1955)	2818
$C_{12}H_{18}O_3S$	α,β -Dimethyl- β -hydroxy-n-propyl p-tolyl sulfone	-	-	Group study	Field	JACS	75 (1953)	5582
$C_{12}H_{18}O_3S_2$	3-Acetoxy-2-acetyl-cyclohexane-1-spiro-2'-(1',3'-dithiolan)	-	S	Band freq	Jaeger	JCS	- (1955)	646
$C_{12}H_{18}O_4$	1-Carbethoxy-4-hydroxy bicyclo[3.3.1]nonan-9-one	2-16 μ	Sol	Spec, Struc	Cope	JACS	73 (1951)	4702
$C_{12}H_{18}O_4$	Diallyl adipate	1050-1800	-	Group freq, Spec	Barnes	IEC	15 (1943)	659
$C_{12}H_{18}O_4$	Diethyl 1,1-dimethyl- α -non-2-ynylmalonate	-	Sol	Group freq	Davison	JCS	- (1953)	2607
$C_{12}H_{18}O_4$	Diethyl 1,1-dimethyl- α -non-2-ynylmalonate	2-15 μ	L	Spec, Freq	Abramovitch	CJC	36 (1958)	151

C ₁₂ H ₁₈ O ₄	-	-	Group freq	Milas	JACS 75 (1953)	5970
3,8-Dimethyl-4,6-decadiyn-3,8-dihydroperoxide	-	-				
γ-Acetyl-γ-isopropenyl-pimelic acid	700-4000	S	Spec, Struc, Anal	Frank	JACS 71 (1949)	1387
Diethyl cyclohexanone-2,6-dicarboxylate	-	L	Table, Band freq	Leonard	JACS 74 (1952)	4070
Dimethyl α-longinecate	-	-	Band study & Freq	Adams	JACS 74 (1952)	700
	-	L	Group freq	Adams	JACS 75 (1953)	4638
Dimethyl riddellate	-	L	Group freq	Adams	JACS 75 (1953)	4638
2:3:5:6-Di-O-isopropylidene-D-mannono-γ-lactone	1700-1800	S	Freq	Barker	CIL - (1958)	658
	2-15	S	Spec	Tipson	JRNMB 62 (1959)	257
Ethyl α,β-diacetyl-succinate	2-15 μ	-	Freq, Struc, Anal	Rasmussen	JACS 71 (1949)	1073
Trimethyl 1,3,5-cyclohexanetri-carboxylate	-	-	Ident	Newman	JACS 76 (1954)	4598
Acetyljaconecic acid	2-15 μ	S, L, Sol	Spec	Bradbury	AJC 9 (1956)	258
Methyl triacetyl-α-D-lyxoside	-	Sol	Anal, Band freq, I	Whistler	AC 25 (1953)	1463
Methyl triacetyl-α-D-xyloside	2-15 μ	Sol	Anal, Band freq, I	Whistler	AC 25 (1953)	1463
Methyl triacetyl-β-D-xyloside	2-15 μ	Sol	Anal, Band freq, I	Whistler	AC 25 (1953)	1463
Methyl triacetyl-β-L-arabinoside	-	Sol	Anal, Band freq, I	Whistler	AC 25 (1953)	1463

$C_{12}H_{18}S$	Dicyclohexenyl sulfide	500-1500	L	Spec	Sheppard	TFS	46 (1950)	429
$C_{12}H_{18}Si$	Cyclohexylphenylsilane	-	L, Sol	Group freq, I	Harvey	JACS	76 (1954)	4555
$C_{12}H_{18}Si$	1-(Phenyldiethylsilyl)-ethylene	-	Sol	Group freq, Spec	Potts	SA	15 (1959)	679
$C_{12}H_{19}Br$	1-Bromo-2-(trans)-n-dodecen-4-yne	-	Sol	Band freq	Celmer	JACS	75 (1953)	3430
$C_{12}H_{19}ClN_2O_7S$	S-(Triacetyl- β -D-xylopyranoyl)thiuronium chloride	8-15 μ	S	Spec	Bonner	JACS	73 (1951)	2241
$C_{12}H_{19}N$	5,5-Dimethyl- β -isopropylidene-2- α -methylvinylpyrroline	6.39 μ	Sol	Substitution effect	Meyers	JOC	24 (1959)	1233
$C_{12}H_{19}N$	N,N-Di-n-propylaniline	1-12 μ 8-2.8 μ	L L	Spec Spec, Group study	Bell Ellis	JACS JACS	47 (1925) 49 (1927)	2192 347
$C_{12}H_{19}N$	2-Isopropyl-6-t-butylpyridine	2-15 μ	L	Table	Podall	AC	29 (1957)	1423
$C_{12}H_{19}N$	n-Hexananilide	420-4000	-	Spec, Assign	Gray	DA	19 (1958)	454
$C_{12}H_{19}N$	N-Methyl- γ -phenylamylamine	-	-	Group freq	Leonard	JACS	75 (1953)	3727
$C_{12}H_{19}NO$	5,5-Dimethyl- β -N-pyrrolidylcyclohex-2-en-1-one	1500-1800	S	Freq, Struc	Leonard	JACS	81 (1959)	595
$C_{12}H_{19}NO$	1-Methylephedrine	600-1600	S, Sol	Spec	Kanzawa	BCSJ	29 (1956)	398
$C_{12}H_{19}NO$	N-p-Tolyl- β -methyl-2-aminobutanol- β	-	Sol	Group freq, H bond	Bergmann	JACS	75 (1953)	68

$C_{12}H_{19}NO_2$	2-Carboxy-3,4-diethyl-5-methylpyrrole	500-4000	S, Sol	Spec, Freq, Struc, Assign	Eisner	JCS	(1958)	971
$C_{12}H_{19}NO_2$	N-Ethyl-N-2,3-dihydroxypropyl-m-toluidine	-	Sol	Anal	Whetsel	AC	29 (1957)	1006
$C_{12}H_{19}NO_3$	1,4-Diethyl-4-n-butyl-2,3,5-pyrrolidine-trione	-	-	Ident	Skinner	JACS	72 (1950)	5569
$C_{12}H_{19}NO_3$	cis-Jasmone semicarbazone	-	L, S	Ident	Harper	JCS	- (1955)	1512
$C_{12}H_{19}N_3O_7S$	S-Acetylglutathione	2-9 μ	Sol	Spec, Freq	Jencks	ABB	88 (1960)	193
$C_{12}H_{20}$	Dihexene	-	-	Struc	Moore	JACS	74 (1952)	373
$C_{12}H_{20}$	Dispiro[4,1,4,1]dodecane	2-16 μ	Sol	Spec, Struc	Walborsky	JOC	18 (1953)	702
$C_{12}H_{20}ClNO$	1-Chloro-1'-nitrosobicyclohexane	1-15 μ	G	Group freq	Luttke	JPR	15 (1954)	633
$C_{12}H_{20}NO_3P$	Diisopropyl anilino-phosphonate	900-1060	Sol	Band freq, I, Group freq	Halmann	JCS	- (1953)	626
$C_{12}H_{20}N_2$	Dicyanododecane	2200-2300	Sol	Freq, Struc	Jesson	SA	13 (1958)	217
$C_{12}H_{20}N_2O_3$	Ortal	2-16 μ	Sol	Spec, Freq	Umberger	AC	24 (1952)	1309
$C_{12}H_{20}N_2O_6S_3$	bis-(β -Ethylsulfonyl- α -methylpropionitrile)sulfone	-	-	Ident	Ross	JACS	73 (1951)	540
$C_{12}H_{20}N_2S_3$	bis-(β -Ethylmercapto- α -methylpropionitrile)sulfone	-	-	Ident	Ross	JACS	73 (1951)	540
$C_{12}H_{20}N_4$	N,N'-Di-(α -cyano-isopropyl)piperazine	-	-	Ident	Emmons	JACS	77 (1955)	4387

$C_{12}H_{20}N_6O_7$	Hexaglycine	650-4000	S	Spec, Struc	Blout	JACS 74 (1952)	946
$C_{12}H_{20}O$	t-Butyl 2-methyl-cyclohex-1-enyl ketone	-	Sol	Ident	Braude	JCS - (1955)	3766
$C_{12}H_{20}O$	3,7-Dimethylnona-2,4-cis,7-trien-9-ol methyl ether	2-16 μ	L	Spec	Oroshnik	JACS 76 (1954)	5719
$C_{12}H_{20}OSi$	Trimethylsilylpropyl phenyl ether	-	-	Inductive effect	Josien	CPR 249 (1959)	826
$C_{12}H_{20}O_2$	cis-18'-2-Decalol acetate	1200-1280	Sol	Spec, Band freq, Stereo effect	Dauben	JACS 74 (1952)	5206
$C_{12}H_{20}O_2$	trans-5 β -2-Decalol acetate	1200-1280	Sol	Spec, Band freq, Stereo effect	Dauben	JACS 74 (1952)	5206
$C_{12}H_{20}O_2$	trans-7 δ -2-Decalol acetate	1200-1280	Sol	Spec, Band freq, Stereo effect	Dauben	JACS 74 (1952)	5206
$C_{12}H_{20}O_2$	cis-10 δ -2-Decalol acetate	1200-1280	Sol	Spec, Band freq, Stereo effect	Dauben	JACS 74 (1952)	5206
$C_{12}H_{20}O_2$	α, γ -Di-t-butyl- $\Delta^{\alpha, \beta}$ butenolide	-	-	Group freq	Wiberg	JACS 76 (1954)	5367
$C_{12}H_{20}O_2$	3-(2,2-Dimethyl-6-methylenecyclohexyl) propionic acid	2.5-16 μ	-	Spec, Group freq	Stauffer	HCA 37 (1954)	1227
$C_{12}H_{20}O_2$	cis-2-trans-8-Dodecadienoic acid	-	-	Band freq, Struc	Crombie	JCS - (1952)	2997
$C_{12}H_{20}O_2$	trans-2-trans-8-Dodecadienoic acid	-	-	Band freq, Struc	Crombie	JCS - (1952)	2997

	1600-1800	L	Spec, Group freq, Struc	Dauben	JACS	75 (1953)	3352
$C_{12}H_{20}O_2$							
Ethyl 2-(4-methyl-1-cyclohexen-1-yl)-propionate							
$C_{12}H_{20}O_2$	8.1-8.6 μ	Sol		Fenton	AC	31 (1959)	960
Geranyl acetate							
$C_{12}H_{20}O_2$	700-1800	L	Group study, Spec	Thompson	JCS	- (1948)	1412
Geranyl acetate (α & β)							
$C_{12}H_{20}O_2$	-	L,S	Group freq	Leonard	JACS	72 (1950)	5388
3,3,8,8-Tetramethyl-1,2-cyclooctanedione							
$C_{12}H_{20}O_3$	2-12 μ	Sol	Band freq	Woodward	JACS	74 (1952)	4223
trans-1,4-Dihydroxy-2-methoxy-10-methyl- Δ^2 -octahydronaphthalene							
$C_{12}H_{20}O_3$	-	-	Group freq	Crombie	JCS	- (1955)	1007
Ethyl 3-hydroxydec-4-ynoate							
$C_{12}H_{20}O_3$	2-12 μ	Sol	Band freq	Woodward	JACS	74 (1952)	4223
trans-1-Hydroxy-2-methoxy-4-keto-10-methyldecahydronaphthalene							
$C_{12}H_{20}O_3$	-	Sol	Band freq	Beyer	JACS	74 (1952)	1406
5-Methyl-1 α , 6 α -epoxy-6-methoxyperhydro-(4 α , β , 8 α , β) naphthalene-4 α -ol							
$C_{12}H_{20}O_3$	-	Sol	Band freq	Dreiding	JACS	75 (1953)	3717
Methyl γ -(2-methyl-1-hydroxycyclohexyl) crotonate							
$C_{12}H_{20}O_3$	-	Sol	Group freq	Davison	JCS	- (1953)	2607
1,1,3-Triallyloxypropane							
$C_{12}H_{20}O_3S$	-	S	Band freq	Jaeger	JCS	- (1955)	646
2-Acetyl-3-ethoxycyclohexane-1-spiro-2'-(1', 3'-oxathiolan)							
$C_{12}H_{20}O_4$	2-16 μ	L,Sol	Spec, Ident	Walton	AC	28 (1956)	1388
sec-Butyl fumarate							

$C_{12}H_{20}O_4$	sec-Butyl maleate	2-16 μ	Sol	Spec, Ident	Walton	AC	28 (1956)	1388
$C_{12}H_{20}O_4$	Dibutyl fumarate	1050-1800 2-16 μ	- L, Sol	Group, Spec Spec, Ident	Barnes Walton	IEC AC	15 (1943) 28 (1956)	659 1388
$C_{12}H_{20}O_4$	Dibutyl maleate	1150-1800 2-16 μ	- L, Sol	Group freq, Spec Spec, Ident	Barnes Walton	IEC AC	15 (1943) 28 (1956)	659 1388
$C_{12}H_{20}O_4$	Isobutyl fumarate	2-16 μ	L	Spec, Ident	Walton	AC	28 (1956)	1388
$C_{12}H_{20}O_4$	Isobutyl maleate	2-16 μ	Sol	Spec, Ident	Walton	AC	28 (1956)	1388
$C_{12}H_{20}O_4S$	trans-10-Hydroxymethyl- 2-decalone mesylate	3.34-11.65 μ	Sol	Table, I	Dreiding	JACS	77 (1955)	411
$C_{12}H_{20}O_6$	1,2:4,5-Di-O-isopropyl- idene-D-fructopyranose	2-15 μ	S	Spec	Tipson	JRNB	62 (1959)	257
$C_{12}H_{20}O_6$	2,3:4,5-Di-O-isopropyl- idene-D-fructopyranose	2-15 μ	S	Spec	Tipson	JRNB	62 (1959)	257
$C_{12}H_{20}O_6$	1,2:5,6-Di-O-isopropyl- idene-D-glucofuranose	8-15 μ 2-15 μ	S S	Spec Spec	Kuhn Tipson	AC JRNB	22 (1950) 62 (1959)	276 257
$C_{12}H_{20}O_6$	2,3:5,6-Di-O-isopropyl- idine-D-manno- furanose	2-15 μ	S	Spec	Tipson	JRNB	62 (1959)	257
$C_{12}H_{20}O_6$	2,3:4:6-Di-O-iso- propylidene-L-xylo- hexulofuranose	2-15 μ	S	Spec	Tipson	JRNB	62 (1959)	257
$C_{12}H_{20}O_6$	Dimethyl jaconecate	2-15 μ	S, L, Sol	Spec	Bradbury	AJC	9 (1956)	258
$C_{12}H_{20}O_6$	2,2,5,5-Tetramethyl- 3,3,6,6-bis-(ethylene- dioxy) 1,4-dioxane	-	-	Group freq	McElvain	JACS	75 (1953)	3993

$C_{12}H_{20}O_7$	Triethyl citrate	2-15 μ	L	Spec	Harvey	JACS	76 (1954)	4555
$C_{12}H_{20}S$	Cyclohexyl cyclohexenyl sulfide	500-1500	L	Spec	Sheppard	TFS	46 (1950)	429
$C_{12}H_{20}Si$	n-Hexylphenylsilane	-	L, Sol	Group freq, I	Harvey	JACS	76 (1954)	4555
$C_{12}H_{20}Si$	Phenyltriethylsilane	-	L	Ident	Gilman	JOC	18 (1953)	1743
$C_{12}H_{20}Si$	Tetraallylsilane	8-15 μ	Sol	Spec	Scott	JACS	73 (1951)	2599
$C_{12}H_{21}BrO$	2-Bromocyclododecanone	-	Sol	IR shift	Leonard	JACS	80 (1958)	6039
$C_{12}H_{21}N$	3-sec-Butylidene-s-ethyl-2,5-Dimethylpyrrolone	6.28 μ	Sol	Substitution effect	Meyers	JOC	24 (1959)	1233
$C_{12}H_{20}NO$	5- 2-Dimethylaminoethyl-1-methoxy-4-methyl-1,4-cyclohexadiene	2-12 μ	-	Spec	Stork	JACS	74 (1952)	768
$C_{12}H_{21}NO_3$	3-Nonyloxazolid-2,4-dione	650-4000	Sol	Spec	Pianka	JCS	- (1960)	983
$C_{12}H_{21}NO_3S$	2-(5-Carboxyhexyl)-4-thiazolidone ethyl ester	-	Sol	Group freq	Pennington	JACS	75 (1953)	109
$C_{12}H_{21}NO_3S$	2-(7-Carboxyheptyl)-4-thiazolidone methyl ester	-	Sol	Group freq	Pennington	JACS	75 (1953)	109
$C_{12}H_{21}NO_6$	Diethyl ethyl-(1-nitro-1-methylethyl) malonate	-	-	Absorp freq	Tamelen	JACS	71 (1949)	835
$C_{12}H_{21}N_2O_3$	Hexhydro-1,3,5-tripropionyl-s-triazine	650-3500	S	Spec Ident	Gradsten Emmons	JACS JACS	70 (1948) 74 (1952)	3079 5524
$C_{12}H_{21}N_3O_6$	Ethyl trans-1,2,3-cyclopropanetri-carbamate	650-3800	S	Spec, Group freq	Hoffman	JACS	74 (1952)	5485

$C_{12}H_{21}O_4P$	Trimethyllyl phosphate	1050-1800	-	Spec	Barnes	IEC	15 (1943)	659
$C_{12}H_{22}$	Cyclohexylcyclohexane	6-14 μ	-	Spec	Beck	JCP	22 (1954)	672
		-	-	Compar	Reed	JCS	- (1954)	1931
		15-35 μ	S	Spec, Struc, Correlation	Bentley	SA	15 (1959)	165
$C_{12}H_{22}$	Cyclopentylcyclohexylmethane	-	-	Band freq, Absorbance	Bomstein	AC	25 (1953)	512
$C_{12}H_{22}$	2,2'-Dimethyldicyclopentyl	6-15 μ	S	Spec	Orchin	JACS	68 (1946)	2737
$C_{12}H_{22}BrNO_3$	α -Bromisocaproylleucine	-	-	Band freq	Buswell	JPC	44 (1940)	1126
$C_{12}H_{22}N_2O$	Azoxycyclohexane	1250-1600	L	Spec, Band freq, Group freq	Langley	JCS	- (1951)	2309
		-	L		Langley	JCS	- (1952)	4191
$C_{12}H_{22}N_2O_2$	Nitrosohexane dimer	-	-	Freq, Struc	Luttkc	ZE	61 (1957)	976
$C_{12}H_{22}N_2O_5$	Ethyl 2-azoxyisobutyrate	1250-1600	L	Spec, Band freq, Struc	Langley	JCS	- (1951)	2309
$C_{12}H_{22}N_2O_5$	Glycylglycyl-DL-leucylglycine	650-4000	S	Spec, Struc	Blout	JACS	74 (1952)	1946
$C_{12}H_{22}N_2O_5$	Tri-L-alanyl-L-alanine	-	S	Struc	Zahn	A	636 (1960)	132
$C_{12}H_{22}O$	Cyclododecanone	-	Sol	Carbonyl freq	Leonard	JACS	80 (1958)	6039
		-	Sol	Freq	Burer	HCA	43 (1960)	1487
$C_{12}H_{22}O$	cis-Cyclohexylcyclohexanol	2.6-3.2 μ	Sol	H bond	Pickett	JACS	71 (1949)	1311
$C_{12}H_{22}O$	trans-Cyclohexylcyclohexanol	2.6-3.2 μ	Sol	H bond	Pickett	JACS	71 (1949)	1311

$C_{12}H_{22}O$	2,2,7,7-Tetramethyl-cyclooctanone	-	L,S	Group & Band freq	Leonard	JACS 72 (1950) 5388
$C_{12}H_{22}O_2$	Cyclohexanonopinacol	3μ	Sol	Band freq, Struc	Kuhn	JACS 74 (1952) 2492
$C_{12}H_{22}O_2$	2-Dodecenoic acid	5.5-16 μ	L,Sol	Spec, Struc	Freeman	JACS 75 (1953) 1859
$C_{12}H_{22}O_2$	2-Ethylhexyl methacrylate	-	Sol	Group freq, Absorptivity	Davison	JCS - (1953) 2607
$C_{12}H_{22}O_2$	Ethyl 3-methyl-2-nonenate	-	Sol	Group freq table	Celmer	JACS 74 (1952) 3838
$C_{12}H_{22}O_2$	Ethyl 3-methyl-3-nonenate	-	Sol	Group freq table	Celmer	JACS 74 (1952) 3838
$C_{12}H_{22}O_2$	Methyl 10-hendecenoate	2-16 μ 200-3200	L	Spec Spec, Assign	Shreve Hidalgo	AC 22 (1950) 1498 ARS 52B (1956) 627
$C_{12}H_{22}O_2$	5-Methyl-2-hendecenoic acid	5.5-16 μ	L,Sol	Spec, Struc	Freeman	JACS 75 (1959) 1859
$C_{12}H_{22}O_2$	2-Methyl-5-isopropyl-1-acetoxymethylcyclopentane	-	-	Band freq	Meinwald	JACS 76 (1954) 4571
$C_{12}H_{22}O_2$	3,3,8,8-Tetramethyl-2-hydroxycyclo-octanone	-	L,S	Band freq	Leonard	JACS 72 (1950) 5388
$C_{12}H_{22}O_2S$	Dicyclohexyl sulfone	- 6-9 μ	Sol Sol	Group freq Assign, Correlation	Waight Haszeldine	JCS - (1952) 2440 JCS - (1955) 2901
$C_{12}H_{22}O_3$	Caproic anhydride	1100-1850	-	Group freq, Spec	Barnes	IEC 15 (1943) 659
$C_{12}H_{22}O_3$	Ethyl dl-pinolate	1600-4000	Sol	Spec, Ident	Francois	BSCF - (1959) 1606
$C_{12}H_{22}O_3$	trans-1,4-Dihydroxy-2-methoxy-10-methyl-decahydronaphthalene	2-12 μ	Sol	Band freq	Woodward	JACS 74 (1952) 4223

				Table band freq, Assign	Frisch	JACS	74 (1952)	4853
$C_{12}H_{22}O_3Si_2$	1,3-Dimethyl-1,3-di- (1-pentynyl)disiloxane- 1,3-diol	-	-	-				
$C_{12}H_{22}O_4$	Di-n-butyl succinate	720-750	L	Band freq	Wiberly	AC	22 (1950)	841
$C_{12}H_{22}O_4$	Diethyl suberate	670-3500	L	Spec, Config	Corish	JCS	- (1958)	927
$C_{12}H_{22}O_4$	Dimethylsebacate	2-16 μ 670-3500	Sol L	Spec, Assign Spec, Config	Stahl Corish	JACS JCS	74 (1952) - (1958)	5487 927
$C_{12}H_{22}O_4$	Dodecanedioic acid	670-2000 650-2000	L,S S	Spec Struc, Spec	Corish Davies	JCS TFS	- (1955) 56 (1960)	2431 185
$C_{12}H_{22}O_4$	Ethyl ethylisopropyl- malonate	-	-	Ident	Tamselen	JACS	71 (1949)	835
$C_{12}H_{22}O_4$	Ethyl octyl oxalate	1740-1800	Sol	Freq	Simon	JOC	23 (1958)	1078
$C_{12}H_{22}O_4$	2,4,4-Trimethyl- pentyliene diacetate	-	-	Ident	Gasson	JCS	- (1954)	2170
$C_{12}H_{22}O_5$	1-Hydroperoxycyclohexyl- 1-hydroxycyclohexyl peroxide	-	S,Sol	Group freq, H bond, Struc	Cooper	JCS	- (1952)	1180
$C_{12}H_{22}O_6$	Di-n-butyl D-tartrate	6600-7400 720-750 2-15 μ 2-15 μ	- L L Sol	Spec, H bond Config, Band freq Spec Spec, Anal, Group freq	Hilbert Wiberly Kendall Pristera	JACS AC APS AC	58 (1936) 22 (1950) 7 (1953) 25 (1953)	548 841 179 844
$C_{12}H_{22}O_6$	1,2:5,6-Di-O-isopropyl- idene-D-mannitol	2-15 μ	S	Spec	Tipson	JRNB	62 (1959)	257
$C_{12}H_{22}O_6$	Triethylene glycol dipropionate	2-15 μ	L	Spec	Kendall	APS	7 (1953)	179
$C_{12}H_{22}O_{11}$	Cellobiose	6-15 μ 3100-3600	S S	Spec Spec	Kuhn Marrinan	AC JAPC	22 (1950) 4 (1954)	276 204

$C_{12}H_{22}O_{11}$	β -Cellobiose	700-1000 700-1000	S S	Freq Ident	Nakanishi White	BCSJ AC	29 (1956) 30 (1958)	434 506
$C_{12}H_{22}O_{11}$	β -Cellobiose	-	S	Group & Band freq, I	Barker	JCS	- (1954)	171
$C_{12}H_{22}O_{11}$	Gentibiose	-	S	Group & Band freq, I	Barker	JCS	- (1954)	171
$C_{12}H_{22}O_{11}$	β -Cellobiose	700-1500	S	Ident	White	AC	30 (1958)	506
$C_{12}H_{22}O_{11}$	3-O- α -D-Glucopyranosyl-D-glucose	700-1500	S	Ident	White	AC	30 (1958)	506
$C_{12}H_{22}O_{11}$	Iso-maltose	700-1500	S	Ident	White	AC	30 (1958)	506
$C_{12}H_{22}O_{11}$	Lactose	650-5000 7-15 μ	S S	Spec Interaction between lactose and casien	Manning Norris	AFS N	10 (1956) 181 (1958)	85 265
$C_{12}H_{22}O_{11}$	α -Lactose	1.7-4.6 μ 8-15 μ	Sol S	Spec, Anal Spec	Barr Kuhn	JCP AC	8 (1940) 22 (1950)	51 276
$C_{12}H_{22}O_{11}$	β -Lactose	1.7-4.6 μ	Sol	Spec, Anal	Barr	JCP	8 (1940)	51
$C_{12}H_{22}O_{11} \cdot H_2O$	Maltose	700-1500	S	Ident	White	AC	30 (1958)	506
$C_{12}H_{22}O_{11}$	dl-Maltose	1.7-4.6 μ 8-15 μ	Sol S	Spec, Anal Freq, Assign Spec	Barr Loofbourov Kuhn	JCP RMP AC	8 (1940) 12 (1940) 22 (1950)	51 267 276
$C_{12}H_{22}O_{11}$	β -Maltose	-	S	Group & Band freq, I	Barker	JCS	- (1954)	171
$C_{12}H_{22}O_{11} \cdot H_2O$	α -Melibiose monohydrate	7.5-14 μ	S	Spec	Fletcher	JACS	74 (1952)	5774
$C_{12}H_{22}O_{11}$	Sucrose	5-2 μ - 8-2.5 μ 4.72 μ 1.7-2 μ	Sol Sol S Sol S	Rotatory dispersion Magnetic rotation, polarisation Spec Absorption band Perturbed OH groups	Ingersoll Ingersoll Ellis Barr Ellis	PR JOSA JCP JCP PR	9 (1917) 5 (1921) 6 (1938) 7 (1939) 55 (1939)	257 156 221 8 597

$C_{12}H_{22}O_{11}$	α, α -Trehalose	2.6-4.6 μ	Sol	Spec Freq, Assign Ident	Barr Loofbourow Djeraasi White	JCP RMP JACS AC	8 (1940) 12 (1940) 76 (1954) 30 (1958)	51 267 4463 506
$C_{12}H_{22}O_{11}$	α, β -Trehalose	8-15 μ	S	Spec Group & Band freq, I	Kuhn Barker	AC JCS	22 (1950) - (1954)	276 171
$C_{12}H_{22}O_{11}$	α, β -Trehalose	-	S	Group & Band freq, I	Barker	JCS	- (1954)	171
$C_{12}H_{22}O_{11}$	β, β -Trehalose	-	S	Group & Band freq, I	Barker	JCS	- (1954)	171
$C_{12}H_{22}O_{11} \cdot 2H_2O$	β -Melibiose dihydrate	8-15 μ	S	Spec	Kuhn	AC	22 (1950)	276
$C_{12}H_{22}S$	Dicyclohexyl sulfide	7.5-14 μ	S	Spec	Fletcher	JACS	74 (1952)	5774
$C_{12}H_{22}S_2$	Dicyclohexyl disulfide	500-1500	L	Spec	Sheppard	TFS	46 (1950)	429
$C_{12}H_{22}Si_2$	m-bis-(Trimethylsilyl) benzene	500-1500	L	Spec Group freq	Sheppard Brandt	TFS JCS	46 (1950) - (1952)	429 2549
$C_{12}H_{22}Si_2$	p-bis-(Trimethylsilyl) benzene	20-160 μ	Sol	Spec, Ident, Iso	Clark	JACS	73 (1951)	3798
$C_{12}H_{23}DO_2$	o-bis-(Trimethylsilyl) benzene	20-160 μ	Sol	Spec, Ident, Iso	Clark	JACS	73 (1951)	3798
$C_{12}H_{23}Si_2$	p-bis-(Trimethylsilyl) benzene	20-160 μ	Sol	Spec, Ident, Iso	Clark	JACS	73 (1951)	3798
$C_{12}H_{23}DO_2$	Lauric acid-d ₁	500-1500	S	Spec, Assign	Hadzi	PFS	216 (1953)	247
$C_{12}H_{23}N$	N-Allylidene-3,5,5- trimethylhexylamine	2.5-14 μ	L	Spec, Band freq	Pollard	JACS	73 (1951)	2925
$C_{12}H_{23}N$	1-Ethylbutylamino- 1-cyclohexane	-	-	Spec	Opitz	A	623 (1959)	112
$C_{12}H_{23}N$	Ethyl n-butyl-ketene n- butylimine	-	-	Group freq	Stevens	JACS	76 (1954)	4398

$C_{12}H_{23}N$	2200-2300	Sol	Freq, Struc	Jesson	SA	13 (1958)	217
n-Undecylanitrile	630-4000	L	Spec, Band freq	Leonard	JOC	18 (1953)	598
cis-N-Acetyl-2-n-butyl-3-methylpiperidine	630-4000	L	Spec, Band freq	Leonard	JOC	18 (1953)	598
trans-N-Acetyl-2-n-butyl-3-methylpiperidine							
3,3-Dimethyl-1-N-(α , α -dimethylpyrrolidyl)-2-butanone	-	S	Group freq	Leonard	JACS	77 (1955)	3272
3,3-Dimethyl-1-N-hexamethyleneimino-2-butanone	-	S	Group freq	Leonard	JACS	77 (1955)	3272
3,3-Dimethyl-1-N-(α -methylpiperidyl)-2-butanone	-	S	Group freq	Leonard	JACS	77 (1955)	3272
2-(2-Ethyl-2hexenylideneamino)-1-butanol	-	L	Group freq	Nace	JACS	75 (1953)	3646
2-(3-Heptene-3)-4-ethylloxazolidine	-	L	Ident	Nace	JACS	75 (1953)	3646
1-t-Butyl-1-azacyclononan-5-ol-6-one	-	Sol	Band freq	Leonard	JACS	76 (1954)	3463
1-Ethyl-1-azacyclononan-6-ol-7-one	-	Sol	Group freq	Leonard	JACS	76 (1954)	630
Methyl 2-acetamido-2-deoxy-3,4,6-tri-O-methyl- α -D-glucopyranoside	-	S	Group & Band freq, I	Barker	JCS	- (1954)	171

$C_{12}H_{23}NO_6$	Methyl 2-acetamido-2-deoxy-3,4,6-tri-O-methyl- β -D-glucopyranoside	-	S	Group & Band freq, I	Barker	JCS - (1954)	171
$C_{12}H_{23}NO_{10} \cdot HCl$	Trihalosamine hydrochloride salt	2-15 μ	S	Spec, Freq	Arcamone	GCI 87 (1957)	1499
$C_{12}H_{23}N_3O_6$	Ethyl 1,2,3-propanetricarbamate	650-3800	S	Spec, Group freq	Hoffman	JACS 74 (1952)	5485
$C_{12}H_{24}$	1-Dodecene	-	-	Group freq, Absorption coefficient	Bonino	TFS 25 (1929)	876
		910	Sol	Optical density	Trevmann	AC 21 (1949)	1161
		-	S	Band assignment	Harrah	JCP 33 (1960)	298
$C_{12}H_{24}$	Butene trimer	-	-	Band freq, Struc	Plesch	JCS - (1947)	257
$C_{12}H_{24}$	n-Butylcyclooctane	2-16 μ	L	Spec	Cope	JACS 74 (1952)	175
$C_{12}H_{24}$	s-Butylcyclooctane	2-16 μ	L	Spec	Cope	JACS 74 (1952)	175
$C_{12}H_{24}$	Cyclododecane	650-1600	S,L	Spec	Billletter	HCA 41 (1958)	338
$C_{12}H_{24}$	Triisobutylene	1150-1650	-	Spec	Barnes	IEC 15 (1943)	659
$C_{12}H_{24}DNO_2$	Laurinohydroxamic acid-d ₁	700-4000	S,S	Spec, H bond	Hadzi	SA 10 (1958)	38
$C_{12}H_{24}N_2O_2$	2-(3-Heptanyl)-3-nitroso-4-ethyl-oxazolidine	-	L	Group study	Goldberg	JACS 75 (1953)	6260
$C_{12}H_{24}N_2O_3 \cdot H_2O$	L-Leucyl-L-leucine hydrate	4000-650	S	Spec, Band study	Blout	JACS 74 (1952)	1946
$C_{12}H_{24}N_4O_4$	Alanyllsylalanine (3L,LLD,LDL)	625-5000	S	Freq, Assign, Spec	Ellenbogen	JACS 78 (1956)	366

$C_{12}H_{24}O$	t-Butyl triptyl ketone	-	-	Group freq, I	Bartlett	JACS	77 (1955)	2806
$C_{12}H_{24}O$	1,2-Epoxydodecane	2-15 μ	L	Spec, Anal	Shreve	AC	23 (1951)	277
		2-15 μ	Sol	Spec, Struc, Group freq	Bomstein	AC	30 (1958)	544
$C_{12}H_{24}O$	2,2,7,7-Tetramethyl-cyclooctanol	-	L,S	Band freq	Leonard	JACS	72 (1950)	5388
$C_{12}H_{24}OS$	3,3-Dimethyl-1-n-hexylmercapto-2-butanone	-	L	Group freq	Leonard	JACS	77 (1955)	3272
$C_{12}H_{24}O_2$	5-t-Butyl-6-hydroxy-2,2-dimethylhexan-3-one hemiketal	-	-	Group study	Wiberg	JACS	76 (1954)	5367
$C_{12}H_{24}O_2$	3-(t-Butylperoxy)octene-1	-	-	Group study	Kharasch	JOC	18 (1953)	322
$C_{12}H_{24}O_2$	cis-Cyclododecane-1,2-diol	-	Sol	Group study	Kuhn	JACS	76 (1954)	4323
$C_{12}H_{24}O_2$	trans-Cyclododecane-1,2-diol	-	Sol	Group study	Kuhn	JACS	76 (1954)	4323
$C_{12}H_{24}O_2$	Ethyl caprate	1-12 μ	L Sol	Peanut oil study Spec, Table	Barr O'Connor	PR JAOC	79 (1950) 28 (1951)	416 154
$C_{12}H_{24}O_2$	Lauric acid	-	-	Heat of association Spec, H bond Table, Group freq Spec, Table Spec, Group freq Spec Spec, Band study Table band & Group freq	Davies Davies Flett O'Connor Crombie Harple Jones Fowler	JCP JCP JCS JAOC JCS AC JACS JCSA	6 (1938) 8 (1940) - (1951) 28 (1951) - (1952) 24 (1952) 74 (1952) 43 (1953)	767 577 962 154 2997 635 2575 1054
		2-3.5 μ	-					
		700-4000	L,S					
		1-12 μ	Sol					
		2.5-14 μ	S					
		2-14 μ	S					
		1100-1400	S					
		6.80-13.76 μ S	S					
		500-1500	S	Spec, Assign	Hadzi	FRS	216 (1953)	247

C ₁₂ H ₂₅ NO	trans-2-Amino-cyclododecanol	-	Sol	Freq, Assign, Shift	Sicher	CCCC	24 (1959)	950
C ₁₂ H ₂₅ NO	2-Cycloheptylamino-3-methyl-3-butanol	1120-1430	-	Band freq	Bergmann	JACS	73 (1951)	5662
C ₁₂ H ₂₅ NO	2,2-Di-n-propyl-4,5,5-trimethylloxazolidine	1080-1190	-	Band freq	Bergmann	JACS	73 (1951)	5662
C ₁₂ H ₂₅ NO	2-(2-Ethylhexylidine-amino)-1-butanol	-	L	Group freq, Struc Ident, Anal	Goldberg Nace	JACS	75 (1953)	6260
C ₁₂ H ₂₅ NO ₂	Laurinhydroxamic acid	700-4000	S,Sol	Spec, H bond	Hadzi	SA	10 (1958)	38
C ₁₂ H ₂₅ NO ₃	n-Dodecyl nitrate	2-15 μ	Sol	Spec, Struc, Correlation	Carrington	SA	16 (1960)	1279
C ₁₂ H ₂₅ O ₃ S	n-Dodecane-1-sulfonate	500-4000	S	Group freq	Fujimori	BCSJ	32 (1959)	850
C ₁₂ H ₂₆	n-Dodecane	2-14 μ	L	Group absorption, Spec	Ellis	PR	27 (1926)	298
		1.1-1.8 μ	Sol	Spec	Liddel	JRNB	11 (1933)	599
		1250-1800	-	Spec	Barnes	IEC	15 (1943)	659
		-	-	Freq	Kellner	TFS	41 (1945)	217
		8000-9000	Sol	Group anal	Hibbard	AC	21 (1949)	486
		-	-	Freq	Simanouti	JCP	17 (1949)	1102
		-	-	Selection rule	Mizushima	JACS	71 (1949)	1320
		-	-	Group anal, Absorption	Hastings	AC	24 (1952)	612
		-	-	Spec, I	Lauer	AFS	6 (1952)	29
		3.4-14.7 μ	Sol	Struct, Group and Table, Freq	Francis	AC	25 (1953)	1466
		700-350	L	Ext coeff	Donneaud	CPR	239 (1954)	1480
		700-3000	Sol		Jones	SA	9 (1957)	235
C ₁₂ H ₂₆	3-Ethyldecane	700-350	L	Table, Freq	Donneaud	CPR	239 (1954)	1480
C ₁₂ H ₂₆	Isododecane	1100-1600	-	Spec	Barnes	IEC	15 (1943)	659
C ₁₂ H ₂₆ Cl ₂ O ₄ Si	Di-t-butoxy-bis(2-chloroethoxy)silane	3.46-15.1 μ	L	Table, Band freq, I	George	JACS	75 (1953)	6308

$C_{12}H_{26}N_2O$	Di-n-hexylnitrosamine	5.95-9.18 μ	L	Table, Group freq, I Stretch freq, Assign Stretch freq, Assign	Haszeldine Haszeldine Haszeldine	JCS - (1954) 691 JCS - (1955) 4172 JCS - (1955) 4172
$C_{12}H_{26}N_2O_4$	Neomycin-A	800-4000	S	Spec, Struct Spec, Ident	Leach Leach	JACS 73 (1951) 2794 JACS 74 (1952) 3187
$C_{12}H_{26}N_2O_4 \cdot HCl$	Neomycin-A hydrochloride	-	S	Spec, Ident	Leach	JACS 74 (1952) 3187
$C_{12}H_{26}O$	t-Butyltritylcarbinol	-	.	Ident	Bartlett	JACS 77 (1955) 2806
$C_{12}H_{26}O$	Dodecanol	2.6-3.3 μ 2.75 μ 3570-3700	Sol Sol Sol	Spec, H bond I Freq, I	Smith Hughes Flynn	JRNB 46 (1951) 145 JCP 24 (1956) 489 AJC 12 (1959) 575
$C_{12}H_{26}O$	2,2,4,4-Tetramethyl-3-isopropyl-3-pentanol	1-15 μ	L	Spec, H bond	Smith	JRNB 46 (1951) 145
$C_{12}H_{26}O$	2,2,4,4-Tetramethyl-3-n-propyl-3-pentanol	1-15 μ	L	Spec, H bond	Smith	JRNB 46 (1951) 145
$C_{12}H_{26}O_2$	n-Hexyl peroxide	6.76-13.78 μ	μ -	Table, I	Welch	JACS 77 (1955) 551
$C_{12}H_{26}O_2$	2-Hexyl peroxide	6.26-13.78 μ	μ -	Table, I	Welch	JACS 77 (1955) 551
$C_{12}H_{26}O_3$	Di-(2-butoxyethyl) ether	720-750	L	Absorption band freq	Wiberly	AC 22 (1950) 841
$C_{12}H_{26}O_3P$	Di(1,2,2-Trimethylpropyl) phosphonate	-	-	Group freq Group freq	Bellamy Bell	JCS - (1952) 1701 JACS 76 (1954) 5185
$C_{12}H_{26}O_7$	Hexaethylene glycol	2400-4000 700-1600	- L	Spec, H bond Freq, Config	Barnes Kuroda	JCP 4 (1936) 722 JPS 26 (1957) 323
$C_{12}H_{26}S$	n-Dodecyl mercaptan	-	Sol	Stretch	Pozefsky	AC 23 (1951) 1611
$C_{12}H_{27}Cl_3N_3B_3$	B-Trichloro-N-tributylborazole	-	Sol	Struct	Watanabe	SA 16 (1960) 78
$C_{12}H_{27}FO_3Si$	Tri-t-butoxy-fluorosilane	-	-	Band study	Hyde	JACS 77 (1955) 3140

$C_{12}H_{27}F_3NB$	Tri-n-butylamine-boro trifluoride complex	2-16 μ	Sol	Band study	Osthoff	JACS	74 (1952)	1361
$C_{12}H_{27}N$	Di-n-hexylamine	2-15 μ	L, S, Sol	Freq, Assign, NCA	Stewart	JCP	30 (1959)	1259
$C_{12}H_{27}N$	Tri-n-butylamine	1-12 μ	L	Spec	Bell	JACS	49 (1927)	1837
$C_{12}H_{27}N$	Tri-n-butylamine	6-2.4 μ	L	Bond study	Ellis	JACS	50 (1928)	685
		-	-	Solvent effect	Gordy	JCP	7 (1939)	93
		720-750	L	Band freq	Wiberly	AC	22 (1950)	841
$C_{12}H_{27}N \cdot HBr$	Tri-n-butylamine hydrobromide	1000-3500	S, Sol	Spec, Band study	Chenon	CJC	36 (1958)	1181
$C_{12}H_{27}N \cdot HCl$	Tri-n-butylamine hydrochloride	1000-3500	S, Sol	Spec, Band study	Chenon	CJC	36 (1958)	1181
$C_{12}H_{27}N \cdot HI$	Tri-n-butylamine hydriodide	1000-3500	S, Sol	Spec, Band study	Chenon	CJC	36 (1958)	1181
$C_{12}H_{27}NO$	N-(Di-n-propylmethyl)- β -methyl-2-aminobutanol-3	-	Sol	Group freq, H bond	Bergmann	JACS	75 (1953)	68
$C_{12}H_{27}NO$	2- γ -Heptylamino- β -methyl- β -butanol	1120-3430	-	Band freq	Bergmann	JACS	73 (1951)	5662
$C_{12}H_{27}O_3P$	Di-n-butyl n-butane-phosphonate	2-21 μ	L	Spec, Anal	Daasch	AC	23 (1951)	853
$C_{12}H_{27}O_3P$	Diethyl 2-ethylhexyl-phosphite	-	-	Group freq, Shift	Bell	JACS	76 (1954)	5185
$C_{12}H_{27}O_3P$	Tributyl phosphite	670-1600	L	Spec, Group freq	Bellamy	JOS	- (1952)	475
$C_{12}H_{27}O_4B$	Boron tri-n-butoxide	2-21 μ	L	Spec, Anal	Daasch	AC	23 (1951)	853
$C_{12}H_{27}O_4B$	t-Butyl borate	-	-	Group freq	Bell	AC	25 (1953)	1720
$C_{12}H_{27}O_4B$	t-Butyl borate	670-1800	S, Sol	Spec, Freq	Werner	AJC	8 (1955)	355
$C_{12}H_{27}O_4B$	t-Butyl borate	3.39-13.10 μ	-	Table	George	JACS	77 (1955)	1900

$C_{12}H_{27}O_3B$	Tri-n-butyl borate	670-1800	S,Sol	Spec, Freq	Werner	AJC 8 (1955)	355
$C_{12}H_{27}O_4P$	Diethyl 2-ethylhexyl-phosphate	-	-	Group freq	Bellamy	JCS - (1952)	1701
$C_{12}H_{27}O_4P$	2-Ethylhexyl hydrogen phenylphosphonate	600-500	L,Sol	Group freq, Shift Spec, H bond	Bell	JACS 76 (1954)	5185
$C_{12}H_{27}O_4P$	Tri-n-butyl phosphate	700-1530	L	Spec, Group freq	Bellamy	JCS - (1952)	475
		-	Sol	Group freq	Bergmann	JCS - (1952)	847
		2-15 μ	L	Spec	Kendall	APS 7 (1953)	179
		-	-	Group freq, Shift	Bell	JACS 76 (1954)	5185
		2-15 μ	L,Sol	Spec, Group freq	Geddes	JPC 58 (1954)	1062
		1160-2998	Sol	H bond, Table, I	Halpern	JACS 77 (1955)	4472
$C_{12}H_{27}PS_4$	Tri-n-butyl phosphoro-tetrathioate	2-25 μ	-	Spec, Struct	Menefee	JOC 22 (1957)	792
$C_{12}H_{28}NO_2PS$	Di-n-butyl diethyl phosphoramidothioate	740-1500	-	Assign	McIvor	CJC 37 (1959)	869
$C_{12}H_{28}NO_2PS$	O-O-Di-n-butyl diethyl phosphoramidothioate	600-1050	Sol	Assign	McIvor	CJC 37 (1959)	869
$C_{12}H_{28}NO_2PS$	Di-isopropyl diisopropyl phosphoramidothioate	740-1500	Sol	Assign	McIvor	CJC 37 (1959)	869
$C_{12}H_{28}NO_2PS$	Di-n-propyl diisopropyl phosphoramidothioate	740-1500	Sol	Assign	McIvor	CJC 37 (1959)	869
$C_{12}H_{28}NO_2PS$	O-O-Di-n-propyl diisopropyl phosphoramidothioate	600-1050	Sol	Assign	McIvor	CJC 37 (1959)	869
$C_{12}H_{28}NO_2PS$	O-O-Diisopropyl diisopropyl phosphoramidothioate	600-1050	Sol	Assign	McIvor	CJC 37 (1959)	869
$C_{12}H_{28}NO_3P$	Diethyl diethylamino phosphonate	900-1060	Sol	Band & Group freq, I	Halmann	JCS - (1953)	626

Chemical Formula	Chemical Name	Concn	Spec	Maarsen	RTC	Year	Page
$C_{12}H_{28}NO_4P$	Di-isopropylcyclohexyl-ammonium phosphate	-	Spec	Maarsen	RTC	76 (1957)	724
$C_{12}H_{28}N_2$	N,N-Di-isopropylhexamethylenediamine	2-15 μ L	Freq, Assign, NCA	Stewart	JCP	30 (1959)	1259
$C_{12}H_{28}N_4O_2$	Di-n-propylnitrosamine dimer	-	Assign G,L, Sol	Haszeldine	JCS	- (1955)	4172
$C_{12}H_{28}N_6$	Sym-bis-(2-Isopropylaminoethyl)oxamide	3-6.5 μ Sol	Spec, Group freq	Woodburn	JOC	17 (1952)	1235
$C_{12}H_{28}N_6$	Sym-bis-(2-n-propylaminoethyl)oxamide	3-6.5 μ Sol	Spec, Group freq	Woodburn	JOC	17 (1952)	1235
$C_{12}H_{28}OSi$	Trimethylsilylheptyl ether	-	Inductive effect	Josien	CFR	249 (1959)	826
$C_{12}H_{28}OSi$	Trimethylsilyloctyl methyl ether	-	Inductive effect	Josien	CFR	249 (1959)	826
$C_{12}H_{28}OSi$	Trimethylsilylpentyl butyl ether	-	Inductive effect	Josien	CFR	249 (1959)	826
$C_{12}H_{28}O_4P_2S_3$	O,O,O-Tetraisopropyl trithiopyrophosphate	740-1500 L	Band assign	McIvor	CJC	37 (1959)	869
$C_{12}H_{28}O_4Si$	Silicon isopropoxide	-	Spec assign.	Kriegsmann	ZE	62 (1958)	1163
$C_{12}H_{28}O_4Si$	Silicon propoxide	-	Spec assign	Kriegsmann	ZE	62 (1958)	1163
$C_{12}H_{28}O_6P_2S$	Tetraisopropyl monothionopyrophosphate	600-900 S	Band assign	McIvor	CJC	37 (1959)	869
$C_{12}H_{28}O_7P_2$	Tetra-isopropyl pyrophosphate	-	Group freq	Bergmann	JCS	- (1952)	847
$C_{12}H_{28}O_7P_2$	Tetra-n-propyl phosphosphate	-	Group freq	Bergmann	JCS	- (1952)	847

$C_{12}H_{28}Si$	Di-n-hexylsilane	2-16 μ	Sol	Freq	Kniseley	SA	15 (1959)	651
$C_{12}H_{28}Si$	n-Dodecylsilane	2-16 μ	Sol	Freq	Kniseley	SA	15 (1959)	651
$C_{12}H_{28}Si$	Tetra-n-propylsilane	-	-	Band freq	George	JACS	77 (1955)	1677
$C_{12}H_{28}Si$	Tri-n-butylsilane	2-16 μ	Sol	Freq	Kniseley	SA	15 (1959)	651
$C_{12}H_{30}Cl_3N_6P_3$	Diethylamino derivative of trimeric phosphorotributyl chloride	1150-1350	-	Freq shift, Struct	Shaw	CIL	- (1959)	54
$C_{12}H_{30}NO_3PS$	Triethylammonium-di-n-propyl phosphorothioate	740-1500	Sol	Assign	McIvor	CJC	37 (1959)	869
$C_{12}H_{30}N_3P_3$	Ethyl phosphonitrilic trimer	2-21 μ	L	Spec	Daasch	AC	23 (1951)	853
$C_{12}H_{30}N_3B_3$	Hexaethylborazole	-	Sol	Struct	Watanabe	SA	16 (1960)	78
$C_{12}H_{30}OSi_2$	Hexaethyldisiloxane	650-1375	L	Spec	Simon	JCP	20 (1952)	905
$C_{12}H_{30}O_3Si_3$	Hexaethylcyclo-trisiloxane	2-16 μ	Sol	Spec	Young	JACS	70 (1948)	3758
$C_{12}H_{30}O_7Si_2$	Hexaethoxydisiloxane	600-3500	L	Spec	Okawara	BCSJ	31 (1958)	154
$C_{12}H_{30}Si_2$	1,6-bis-(Trimethylsilyl)hexane	837-2920	Sol	Table, I	West	JOC	18 (1953)	1739
$C_{12}H_{32}O_8Si_4$	Tetramethyltetraethoxycyclo-tetrasiloxane	600-3500	L	Spec	Oakawara	BCSJ	31 (1958)	154
$C_{12}H_{34}O_5Si_4$	Diethoxyoctamethyl-tetrasiloxane	600-3500	L	Spec	Okawara	BCSJ	31 (1958)	154
$C_{12}H_{35}NO_2Si_4$	bis-Hexamethyldisiloxanyl-amine	2-15 μ	-	Spec	George	JACS	77 (1955)	3493

Chemical Formula	Chemical Name	Ident, Band freq	Tolkmith	JACS	Year
C ₁₂ H ₃₆ N ₆ O ₇ P ₄	Dodecamethyl tetra-phosphoramidate (Linear)	-	Tolkmith	JACS	75 (1953) 5270
C ₁₂ H ₃₆ N ₆ O ₇ P ₄	Dodecamethyl tetra-phosphoramidate (pyramidal)	Ident, Band freq	Tolkmith	JACS	75 (1953) 5270
C ₁₂ H ₃₆ N ₆ P ₃	Dimethylamino derivative of trimeric phosphonitric acid	Freq shift, Struct	Shaw	CIL	- (1959) 54
C ₁₂ H ₃₆ O ₄ Si ₅	3,3-Di-(trimethylsiloxy)-hexamethyltrisiloxane	Spec	Wright	JACS	69 (1947) 803
C ₁₂ H ₃₆ O ₄ Si ₅	Dodecamethylpentasiloxane	Spec	Wright	JACS	69 (1947) 803
C ₁₂ H ₃₆ O ₄ Si ₅	Dodecamethylpentasiloxane	Spec, Table, Assign	Richards	JCS	- (1949) 124
C ₁₂ H ₃₆ O ₄ Si ₅	Dodecamethylpentasiloxane	Thermo	Thompson	JCS	- (1953) 1908
C ₁₂ H ₃₆ O ₄ Si ₅	Dodecamethylpentasiloxane	Spec	Kriegsmann	ZE	64 (1960) 541
C ₁₂ H ₃₆ O ₄ Si ₅	Tetratrimethylsiloxy-silane	Spec, Assign	Kriegsmann	ZE	62 (1956) 1163
C ₁₂ H ₃₆ O ₆ Si ₅	Dimethoxydecamethyl-pentasiloxane	Spec, Struct	Tanaka	BCSJ	31 (1958) 762
C ₁₂ H ₃₆ O ₆ Si ₆	Dodecamethylcyclohexasiloxane	Spec	Wright	JACS	69 (1947) 803
C ₁₂ H ₃₆ O ₆ Si ₆	Dodecamethylcyclohexasiloxane	Spec, Table, Group assign	Richards	JCS	- (1949) 124
C ₁₂ H ₃₆ O ₆ Si ₆	Dodecamethylcyclohexasiloxane	Assign	Kriegsmann	ZAUA	298 (1958) 232
C ₁₂ H ₃₆ O ₁₁ Si ₅	Pentamethylheptamethoxy-pentasiloxane	Struct	Tanaka	BCSJ	31 (1958) 762
C ₁₂ H ₃₆ O ₁₁ Si ₅	Pentamethylheptamethoxy-pentasiloxane	Assign, Thermo	Katon	DA	20 (1959) 523
C ₁₂ D ₁₀	Biphenyl-D ₁₀	Spec, Assign, Config, Thermo	Katon	SA	15 (1959) 627
C ₁₂ D ₁₀	Biphenyl-D ₁₀	Freq	Peregudov	OS	9 (1960) 295

C₁₃ COMPOUNDS

C ₁₃ H ₂ Cl ₁₀ N ₂ O	2,2',2',5,5',6,6',N,N'- Decachlorocarbonilide	-	-	H bond	Kutepov	ZOK	30 (1960)	3448
C ₁₃ H ₃ F ₅ N ₂ O ₆	Pentafluorodinitro- benzoyl phenoxide	900-1500	S	Stretch freq	Birchall	JCS	- (1959)	13
C ₁₂ H ₄ Cl ₂ F ₆ N ₂ O	2,2',4,4',5,5'- Hexafluoro-N,N'- dichlorocarbonilide	-	-	H bond	Kutepov	ZOK	30 (1960)	3448
C ₁₃ H ₄ Cl ₈ N ₂ O	2,2',2',3',5,5',6,6'- Octachlorocarbonilide	-	-	H bond	Kutepov	ZOK	30 (1960)	3448
C ₁₃ H ₄ Cl ₈ N ₂ O	2,2',4,4',5,5',N,N'- Octachlorocarbonilide	-	-	H bond	Kutepov	ZOK	30 (1960)	3448
C ₁₃ H ₄ Cl ₈ N ₂ O	2,2',4,4',6,6',N,N'- Octachlorocarbonilide	-	-	H bond	Kutepov	ZOK	30 (1960)	3448
C ₁₃ H ₄ F ₂ O ₄	bis-2,2,3,3,4,4-Hepta- fluorobutyl hexafluoro- glutarate	-	L	Group freq	Rappaport	JACS	75 (1953)	2695
C ₁₃ H ₄ F ₂ O ₄	2,2,3,3,4,4-Hexafluoro-1,5- pentanediol bis-hepta- fluorobutylate	-	L	Band freq	Rappaport	JACS	75 (1953)	2695
C ₁₃ H ₅ Cl ₇ N ₂ O	2,2',4,4',6,N,N'-Hepta- chlorocarbonilide	-	-	H bond	Kutepov	ZOK	30 (1960)	3448
C ₁₃ H ₅ F ₅ O ₂	Pentafluorobenzoyl phenoxide	900-1550	S	Stretch freq	Birchall	JCS	- (1959)	13
C ₁₃ H ₆ Cl ₂ O	1,3-Dichlorofluorenone	1600-1800	Sol	Band freq	Josien	JCP	21 (1953)	331

$C_{13}H_6Cl_6N_2O$	$C_{13}H_6Cl_6N_2O$	$C_{13}H_6Cl_6N_2O$	$C_{13}H_6Cl_6N_2O$	$C_{13}H_6O_4S$	$C_{13}H_6O_4S$	$C_{13}H_7BrO$	$C_{13}H_7BrO_3$	$C_{13}H_7BrO_3$	$C_{13}H_7Br_2N$	$C_{13}H_7ClO_3$	$C_{13}H_7Cl_3OS$	$C_{13}H_7Cl_5N_2O$	$C_{13}H_7F_3N_2O_4$
2,2',4,4',5,5'-Hexachloro- <i>carbanilide</i>	2,2',4,4',6,6'-Hexachloro- <i>carbanilide</i>	2,2',4,4',N,N'-Hexachloro- <i>carbanilide</i>	2,2',6,6',N,N'-Hexachloro- <i>carbanilide</i>	Thiophanthraquinone-5-carboxylic acid	Thiophanthraquinone-8-carboxylic acid	1-Bromofluorenone	2-Bromo-4-dibenzofuran-carboxylic acid	2-Bromo-6-dibenzofuran-carboxylic acid	3,7-Dibromoacridine	2-Chloro-4-dibenzofuran-carboxylic acid	Phenylthio 2,3,6-trichlorobenzoate	2,2',4,4',6-Pentachloro- <i>carbanilide</i>	4,4'-Dinitro-3-trifluoromethylidiphenyl
-	-	-	-	3-15 μ	3-15 μ	1600-1800	-	-	-	-	2.5-16 μ	-	700-1800
-	-	-	-	S	S	Sol	-	-	-	-	Sol	-	L,S
-	H bond	H bond	H bond	Spec	Spec	Group freq	Spec	Spec	Ident	Spec	Struct, Freq	H bond	Stretch freq, I Bond study
Kutepov	Kutepov	Kutepov	Kutepov	Weinmayr	Weinmayr	Josien	Oita	Oita	Acheson	Oita	Nyquist	Kutepov	Randle Randle
30 (1960) 3448	30 (1960) 3448	30 (1960) 3448	30 (1960) 3448	74 (1952) 4361	74 (1952) 4361	21 (1953) 331	20 (1955) 657	20 (1955) 657	- (1954) 4142	20 (1955) 657	15 (1959) 514	30 (1960) 3448	- (1952) 4153 - (1955) 1311

$C_{13}H_8DNO_2$	9-Aci-nitrofluorene-9-d ₁	650-5000	S	Spec	Freeman	JOC	21	(1956)	472
$C_{13}H_8D_2$	Fluorene-9,9-d ₂	700-1400	Sol	Spec	Scherf	CJC	38	(1960)	697
$C_{13}H_8Br_2O$	3,3'-Dibromobenzophenone	1600-1800	Sol	Group freq	Fuson	JACS	76	(1954)	2526
$C_{13}H_8Br_2O$	p,p'-Dibromodiphenyl ketone	6-12 μ	S	Spec	Sutherland	N	160	(1947)	567
$C_{13}H_8ClN$	p-Chlorophenylethylyl-pyridine	700-1700	Sol	Freq assign, Substitution effect	Katritzky	JCS	-	(1959)	2051
$C_{13}H_8ClNO$	p-Chlorophenylethylyl-pyridine-1-oxide	700-1700	Sol	Substitution effect	Katritzky	JCS	-	(1959)	2051
$C_{13}H_8Cl_2O$	4,4'-Dichlorobenzophenone	1600-1800	Sol	Group freq	Fuson	JACS	76	(1954)	2526
$C_{13}H_8Cl_2O$	2,2',4,4'-Tetrachloro-carbanilide	-	Sol	Group freq	Pickard	JACS	76	(1954)	5169
$C_{13}H_8Cl_4N_2O$	2,2',4,4'-Tetrachloro-carbanilide	-	-	H bond	Kutepov	ZOK	30	(1960)	3448
$C_{13}H_8Cl_4N_2O$	2,4,4',6-Tetrachloro-carbanilide	-	-	H bond	Kutepov	ZOK	30	(1960)	3448
$C_{13}H_8Cl_4O_2$	Tetrachlorohydroquinone benzyl ether	-	-	Band freq	Hammond	JACS	77	(1955)	3248
$C_{13}H_8F_3NO_2$	2-Nitro-3'-trifluoro-methyldiphenyl	700-1800	L,S	Stretch freq, I	Randle	JCS	-	(1952)	4153
$C_{13}H_8F_3NO_2$	4-Nitro-3-trifluoro-methyldiphenyl	-	-	Bond study	Randle	JCS	-	(1955)	1311
$C_{13}H_8F_3NO_2$	4-Nitro-3-trifluoro-methyldiphenyl	700-1800	L,S	Stretch freq, I	Randle	JCS	-	(1952)	4153
$C_{13}H_8F_3NO_2$	4-Nitro-3'-trifluoro-methyldiphenyl	-	-	Bond study	Randle	JCS	-	(1955)	1311
$C_{13}H_8F_3NS$	2-Trifluoromethylpheno-thiazine	700-1800	L,S	Stretch freq, I	Randle	JCS	-	(1952)	4153
$C_{13}H_8F_3NS$	2-Trifluoromethylpheno-thiazine	-	-	Bond study	Randle	JCS	-	(1955)	1311
$C_{13}H_8F_3NS$	2-Trifluoromethylpheno-thiazine	2-22 μ	S	Spec, Struct	Smith	JOC	15	(1950)	1125

C ₁₃ H ₈ N ₂ O	1,7-Phenanthroline-8-carboxaldehyde	-	-	Group freq	Eifert	JACS 77 (1955)	1818
C ₁₃ H ₈ N ₂ O	4,7-Phenanthroline-1-carboxaldehyde	-	-	Group freq	Eifert	JACS 77 (1955)	1818
C ₁₃ H ₈ N ₂ O ₂	p-Nitrophenylethyrylpyridine	700-1700	Sol	Substitution effect	Katritzky	JCS - (1959)	2051
C ₁₃ H ₈ N ₂ O ₃	p-Nitrophenylethyrylpyridine-1-oxide	700-1700	Sol	Substitution effect	Katritzky	JCS - (1959)	2051
C ₁₃ H ₈ N ₂ O ₅	3,4'-Dinitrobenzophenone	-	S	Group freq	Hunsberger	JOC 20 (1955)	70
C ₁₃ H ₈ O	Fluorenone	-	-	H bond, Ident Group freq	Detar Josien	JACS 75 (1953) JCP 21 (1953)	5117 331
C ₁₃ H ₈ O	Perinaphthenone-7	1100-1800 1600-1800	S Sol	Spec, Group freq Group freq	Cromwell Josien	JACS 75 (1953) JCP 21 (1953)	872 331
C ₁₃ H ₈ OS	Thioxanthone	1600-1800	Sol	Group freq	Josien	JCP 21 (1953)	331
C ₁₃ H ₈ OS	Xanthione	-	Sol	Group freq	Bergmann	JACS 77 (1955)	1549
C ₁₃ H ₈ O ₂	8,9-Epoxyperinaphthathione-7	1100-1800	S	Spec, Group freq	Cromwell	JACS 75 (1953)	872
C ₁₃ H ₈ O ₂	3-(1-Naphthyl)-2-propynoic acid	4.2-4.8 μ 2-15 μ	Sol Sol	Absorption band Spec, Group freq	Ard Doukas	AC 23 (1951) JOC 19 (1954)	133 343
C ₁₃ H ₈ O ₂	Xanthone	1600-1800	Sol	Group freq	Josien	JCP 21 (1953)	331
C ₁₃ H ₈ O ₂ S	4-Dibenzothiophene-carboxylic acid	-	-	Ident	Gilman	JACS 74 (1952)	266
C ₁₃ H ₈ O ₃	4-Dibenzofurancarboxylic acid	-	-	Ident	Oita	JOC 20 (1955)	657
C ₁₃ H ₈ S ₂	Thioxanthione	-	Sol	Group freq	Bergmann	JACS 77 (1955)	1549

$C_{13}H_9D$	Fluorene-9-d ₁	700-1400	Sol	Spec	Scherf	CJC	38 (1960)	697
$C_{13}H_9DN_2$	9-Aminoacridine-d ₁	-	-	Spec	Sheinker	DANS	131 (1960)	1366
$C_{13}H_9BrO$	3-Bromobenzophenone	1600-1800	Sol	Group freq	Fuson	JACS	76 (1954)	2526
$C_{13}H_9BrO$	4-Bromobenzophenone	1600-1800	Sol	Group freq	Fuson	JACS	76 (1954)	2526
		-	Sol	Substitution effect	Thompson	SA	9 (1957)	208
$C_{13}H_9BrO$	7-Bromo-2-phenyltropone	2.5-1.5 μ	Sol	Spec	Doering	JACS	75 (1953)	2387
$C_{13}H_9BrOS$	Phenylthio m-bromo-benzoate	2.5-16 μ	Sol	Freq, Struct	Nyquist	SA	15 (1959)	514
$C_{13}H_9BrOS$	Phenylthio o-bromo-benzoate	2.5-16 μ	Sol	Struct, Freq	Nyquist	SA	15 (1959)	514
$C_{13}H_9BrOS$	Phenylthio p-bromo-benzoate	2.5-16 μ	Sol	Struct, Freq	Nyquist	SA	15 (1959)	514
$C_{13}H_9Br_2NO$	N-Benzoyl-2,4-dibromo-aniline	-	-	Ident	Weisblat	JACS	75 (1953)	3630
$C_{13}H_9ClN_2O_3$	N-Benzoyl-2-chloro-4-nitroaniline	-	S	Group freq	Adams	JACS	76 (1954)	3584
$C_{13}H_9ClO$	4-Chlorobenzophenone	1600-1800	Sol	Group freq	Fuson	JACS	76 (1954)	2526
$C_{13}H_9ClOS$	Phenylthio o-chloro-benzoate	2.5-16 μ	Sol	Struct, Freq	Nyquist	SA	15 (1959)	514
$C_{13}H_9ClOS$	Phenylthio p-chloro-benzoate	2.5-16 μ	Sol	Struct, Freq	Nyquist	SA	15 (1959)	514
$C_{13}H_9Cl_2N$	bis-(p-Chlorophenyl)ketimine	-	-	Group freq	Pickard	JACS	76 (1954)	5169
$C_{13}H_9FOS$	Phenylthio o-fluoro-benzoate	2.5-16 μ	Sol	Struct, Freq	Nyquist	SA	15 (1959)	514

$C_{13}H_9F_3$	p-Phenylbenzo trifluoride	-	-	Ident	Dannley	JACS	76 (1954)	4543
$C_{13}H_9IOS$	Phenylthio m-iodobenzoate	2.5-16 μ	Sol	Struct, Freq	Nyquist	SA	15 (1959)	514
$C_{13}H_9IOS$	Phenylthio o-iodobenzoate	2.5-16 μ	Sol	Struct, Freq	Nyquist	SA	15 (1959)	514
$C_{13}H_9IOS$	Phenylthio p-iodobenzoate	2.5-16 μ	Sol	Struct, Freq	Nyquist	SA	15 (1959)	514
$C_{13}H_9N$	Acridine	660-2040	Sol	Spec	Cannon	SA	4 (1951)	373
		-	L	Spec	Perkampus	ZE	64 (1960)	951
$C_{13}H_9N$	1-Azabenz(b)azulene	6-9 μ	Sol	Freq	Anderson	JACS	74 (1952)	3455
		-	-	Spec	Muth	JACS	77 (1955)	1006
$C_{13}H_9N$	3,4-Benzquinoline	-	L	Spec	Perkampus	ZE	64 (1960)	951
$C_{13}H_9N$	5,6-Benzquinoline	-	L	Spec	Perkampus	ZE	64 (1960)	951
$C_{13}H_9N$	7,8-Benzquinoline	-	L	Spec	Perkampus	ZE	64 (1960)	951
$C_{13}H_9N$	m-Biphenylcarbonitrile	-	L	Anal, Iso	Dannley	JACS	76 (1954)	2997
$C_{13}H_9N$	o-Biphenylcarbonitrile	-	L	Anal, Iso	Dannley	JACS	76 (1954)	2997
$C_{13}H_9N$	p-Biphenylcarbonitrile	-	L	Anal, Iso	Dannley	JACS	76 (1954)	2997
$C_{13}H_9N$	9-Fluorenimine	6200-6500	Sol	Spec, Group anal	Wulf	JACS	57 (1935)	1464
$C_{13}H_9N$	β -(2-Pyridyl)phenyl-acetylene	4000-600	Sol	Group freq	Katritzky	JCS	- (1958)	4155
$C_{13}H_9N$	β -(4-Pyridyl)phenyl-acetylene	4000-600	Sol	Group freq	Katritzky	JCS	- (1958)	4155
$C_{13}H_9NO$	Acridone	6.11-7.95 μ	S	Table	Acheson	JCS	- (1954)	3742
$C_{13}H_9NO$	p-Biphenyl isocyanate	-	Sol	Freq	Caldow	SA	13 (1958)	212

$C_{13}H_9NO$	1-Hydroxyacridine	-	S	Spec, Assign, Taut	Mason	JCS	-	(1957)	4874
$C_{13}H_9NO$	3-Hydroxyacridine	-	-	Spec, Assign, Taut	Mason	JCS	-	(1957)	4874
$C_{13}H_9NO$	4-Hydroxyacridine	3650-1400	Sol	Spec, Assign, Taut	Mason	JCS	-	(1957)	4874
$C_{13}H_9NO$	2-Hydroxyphenanthridine	-	S,Sol	Freq, Taut	Mason	JCS	-	(1957)	4874
$C_{13}H_9NO$	6-Hydroxyphenanthridine	1400-3650	S	Spec assign	Mason	JCS	-	(1957)	4874
$C_{13}H_9NO$	7-Hydroxyphenanthridine	-	S,Sol	Freq, Taut	Mason	JCS	-	(1957)	4874
$C_{13}H_9NO$	9-Hydroxyphenanthridine	-	S,Sol	Freq, Taut	Mason	JCS	-	(1957)	4874
$C_{13}H_9NO$	p-Phenylbenzotrile-N-oxide	600-3000	Sol	Spec	Wiley	JOC	25	(1960)	546
$C_{13}H_9NO$	2-Phenylbenzoxazole	-	Sol	Spec, Band freq	Witkop	JACS	74	(1952)	3861
$C_{13}H_9NO$	4-Phenylethynylpyridine-1-oxide	600-3000 4000-600	Sol	Substitution effect Group freq	Katritzky Katritzky	JCS	-	(1958)	4155
$C_{13}H_9NO_2$	9-Aci-nitrofluorene	650-5000	S	Spec	Freeman	JOC	21	(1956)	472
$C_{13}H_9NO_2$	2-(o-Hydroxyphenyl)benzoxazole	3-13 μ	S	Band study	Harkins	AC	27	(1955)	318
$C_{13}H_9NO_2$	[5,6-4,5]2-Methylloxolo-7H-cycloheptabenzene-7-one	700-1150	S	Spec, Band freq	Nicholls	JACS	74	(1952)	4935
$C_{13}H_9NO_3$	1,2-Dihydroxy-3-aceto-4-cyanonaphthalene	-	Sol	H bond, Struct	Awad	JACS	80	(1958)	6057
$C_{13}H_9NO_3$	3-Hydroxycarbazole-2-carboxylic acid	400-4000	S,L	Group freq, Table, Association	Flett	JCS	-	(1951)	962
$C_{13}H_9NO_3$	3-(1'-Naphthyl)oxazolid-2,4-dione	650-4000	Sol	Spec	Pianka	JCS	-	(1960)	983

C ₁₃ H ₉ NO ₃	3-(2'-Naphthyl)oxazolid- 2,4-dione	650-4000	Sol	Spec	Pianka	JCS	(1960)	983
C ₁₃ H ₉ NO ₃	m-Nitrobenzophenone	-	Sol	Substitution effect	Thompson	SA	9 (1957)	208
C ₁₃ H ₉ NO ₃	p-Nitrobenzophenone	-	Sol	Band freq, Anal	Newman	JACS	75 (1953)	2322
C ₁₃ H ₉ NO ₃ S	Phenylthio m-nitro- benzoate	2.5-15 μ	Sol	Struct, Freq	Nyquist	SA	15 (1959)	514
C ₁₃ H ₉ NO ₃ S	Phenylthio p-nitroben- zoate	2.5-15 μ	Sol	Struct, Freq	Nyquist	SA	15 (1959)	514
C ₁₃ H ₉ NS	p-Diphenyl isothiocyanate	600-4000	S,Sol	Spec	Ham	SA	16 (1960)	279
C ₁₃ H ₉ N ₃	1-Methyl-4-(α, α-dicyano- methylene)-1,4-dihydro- quinoline	1600-2200	-	Band freq	Leonard	JACS	74 (1952)	2110
C ₁₃ H ₉ N ₃ O ₆	N-2,4-Dinitrophenyl- anthranilic acid	1300-3400	S,Sol	Spec, Struct	Isherwood	N	175 (1955)	419
C ₁₃ H ₉ N ₃ O ₇	4,4'-Dinitrobenzhydryl nitrate	-	S	Band study	Hunsberger	JOC	20 (1955)	70
C ₁₃ H ₁₀	Fluorene	3.1-3.7 μ 700-1500 1700-700	Sol Sol L,Sol	Spec Spec, Assign Spec	Fox Richards Richards	PRS JCS PRS	167 (1938) - (1947) 195 (1948)	257 1260 1
		660-2040 700-1400	S,Sol Sol	Spec Spec	Cannon Scherf	SA CJC	4 (1951) 38 (1960)	373 697
C ₁₃ H ₁₀	3-(1-Naphthyl)-1-propyne	2-15 μ	L	Spec, Group freq	Doukas	JOC	19 (1954)	343
C ₁₃ H ₁₀ BrClN ₂ O	cis-(3-Bromo-4-chloro- benzylazoxy)benzene	-	S	Group study	Brough	JCS	- (1954)	4069
C ₁₃ H ₁₀ BrClN ₂ O	trans-(3-Bromo-4-chloro- benzylazoxy)benzene	-	S	Group study	Brough	JCS	- (1954)	4069

$C_{13}H_{10}BrClN_2O$	trans-p-Bromo-(4-chloro-benzylazoxy)benzene	-	S	Group study	Brough	JCS - (1954)	4069
$C_{13}H_{10}BrClN_2O$	trans- ω -(p-Bromophenyl-azoxy)-p-chlorotoluene	-	S	Group study	Brough	JCS - (1954)	4069
$C_{13}H_{10}BrNO$	N-Benzoyl-p-bromoaniline	-	-	Ident	Weisblat	JACS 75 (1953)	3630
$C_{13}H_{10}BrNO$	2-p-Bromophenacylpyridine	-	S,Sol	Freq	Branch	N 177 (1956)	671
$C_{13}H_{10}BrNO_2$	2-Methyl-6-nitro-2'-bromo-biphenyl	-	Sol	Ident	Detar	JACS 77 (1955)	4393
$C_{13}H_{10}Br_2O_4$	2,3-Dibromo-1,2,3,4-tetrahydro-5,8-dimethoxy-2,3-methylene-1,4-dioxonaphthalene	-	-	Band freq	Sorrie	JCS - (1955)	2238
$C_{13}H_{10}ClN$	p-Chlorostyrylpyridine	700-1700	Sol	Substitution effect	Katritzky	JCS - (1959)	2051
$C_{13}H_{10}ClNO$	Benz-p-chloroanilide	-	-	Band freq	Flett	JCS - (1948)	1441
$C_{13}H_{10}ClNO$	p-Chlorobenzanilide	-	-	Band freq	Flett	JCS - (1948)	1441
$C_{13}H_{10}ClNO$	o-4-Chlorobenzylidene-aminophenol	3300-3400	Sol	Substitution effect	Badger	JCS - (1958)	3437
$C_{13}H_{10}ClNO$	2-p-Chlorophenacylpyridine	-	S,Sol	Freq	Branch	N 177 (1956)	671
$C_{13}H_{10}Cl_2N_2O$	N'-Benzoyl-3,5-dichloro-p-phenylenediamine	-	S	Group freq	Adams	JACS 76 (1954)	3584
$C_{13}H_{10}Cl_2N_2O$	N,N'-Dichloro-carbanilide	-	-	H bond	Kutepov	ZOK 30 (1960)	3448
$C_{13}H_{10}Cl_2O$	2a-Dichloromethyl-5-keto-2a,5-dihydroacenaphthene	-	-	Band study	Fuson	JOC 17 (1952)	316
$C_{13}H_{10}FNO$	2-p-Fluorophenacylpyridine	-	S,Sol	Freq	Branch	N 177 (1956)	671

$C_{13}H_{10}F_3N$	4-Amino-3-trifluoromethyl-diphenyl	-	-	Struct	Handle	JCS - (1955) 1311
$C_{13}H_{10}F_{14}O_2S_2$	Pentamethylenedithiol bis-(n-heptafluorobutyrate)	2-16 μ	L	Spec, Band freq	Hauptschein	JACS 74 (1952) 4005
$C_{13}H_{10}F_{14}O_4$	1,5-Pentanediol-bis-heptafluorobutyrate	-	L	Group freq	Rappaport	JACS 75 (1953) 2695
$C_{13}H_{10}I_2O_2$	Benzophenone iodine complex	-	Sol	Carbonyl band in free and complex molecule	Gluskar	JCS - (1955) 471
$C_{13}H_{10}N_2$	3-Phenylimidazo-(1,2-a)pyridine	-	Sol	Ident	Djerassi	JACS 76 (1954) 4470
$C_{13}H_{10}N_2$	1-Aminoacridine	-	Sol	Stretch freq, H bond, FC	Short	JCS - (1952) 4584
$C_{13}H_{10}N_2$	2-Aminoacridine	3 μ	Sol	Freq, Struct, I	Mason	JCS - (1959) 1281
$C_{13}H_{10}N_2$	3-Aminoacridine	-	Sol	Stretch freq, H bond, FC	Short	JCS - (1952) 4584
$C_{13}H_{10}N_2$	4-Aminoacridine	3 μ	Sol	Freq, Struct, I	Mason	JCS - (1959) 1281
$C_{13}H_{10}N_2$	5-Aminoacridine	-	Sol	Stretch freq, H bond, FC	Short	JCS - (1952) 4584
$C_{13}H_{10}N_2$	9-Aminoacridine	3 μ	Sol	Freq, Struct, I	Mason	JCS - (1959) 1281
$C_{13}H_{10}N_2$	9-Aminoacridine	-	Sol	Stretch freq, H bond, FC	Short	JCS - (1952) 4584
$C_{13}H_{10}N_2$	9-Aminoacridine	-	Sol	Freq, Struct, I	Mason	JCS - (1959) 1281
$C_{13}H_{10}N_2$	9-Aminoacridine	-	Sol	Struct	Karyakin	DANS 116 (1957) 969
$C_{13}H_{10}N_2$	9-Aminoacridine	-	-	Spec, Struct	Sheinker	DANS 131 (1960) 1366

$C_{13}H_{10}N_2$	1'-Amino-7,8-Benzoquinoline	3μ	Sol	Freq, Struct, I	Mason	JCS -	(1959)	1281
$C_{13}H_{10}N_2$	3-Amino-6,7-benzoquinoline	3μ	Sol	Freq, Struct, I	Mason	JCS -	(1959)	1281
$C_{13}H_{10}N_2$	4-Amino-6,7-benzoquinoline	3μ	Sol	Freq, Struct, I	Mason	JCS -	(1959)	1281
$C_{13}H_{10}N_2$	4-Amino-7,8-benzoquinoline	3μ	Sol	Freq, Struct, I	Mason	JCS -	(1959)	1281
$C_{13}H_{10}N_2$	4'-Amino-5,6-benzoquinoline	3μ	Sol	Freq, Struct, I	Mason	JCS -	(1959)	1281
$C_{13}H_{10}N_2$	6-Amino-7,8-benzoquinoline	3μ	Sol	Freq, Struct, I	Mason	JCS -	(1959)	1281
$C_{13}H_{10}N_2$	6-Aminophenanthridine	3μ	Sol	Freq, Struct, I	Mason	JCS -	(1959)	1281
$C_{13}H_{10}N_2$	9-Aminophenanthridine	3μ	Sol	Freq, Struct, I	Mason	JCS -	(1959)	1281
$C_{13}H_{10}N_2 \cdot H_2O$	4-Hydroxy-2-methyl-1,10-phenanthroline	-	S,Sol	Spec, Assign, Taut	Mason	JCS -	(1957)	4874
$C_{13}H_{10}N_2O_2$	m-Carboxyazobenzene	-	S	Freq	Lefevre	AJC	10 (1957)	26
$C_{13}H_{10}N_2O_2$	p-Carboxyazobenzene	-	S	Freq	Lefevre	AJC	10 (1957)	26
$C_{13}H_{10}N_2O_2$	p-Nitroanilbenzaldehyde	1300-1600	S,Sol	Struct	Kross	JACS	78 (1956)	4225
$C_{13}H_{10}N_2O_2$	N-(2'-Nitro)benzylideneaniline	-	Sol	Freq	Clougherty	JOC	22 (1957)	462
$C_{13}H_{10}N_2O_2$	p-Nitrostyrylpyridine	700-1700	Sol	Substitution effect	Katritzky	JCS -	(1959)	2051
$C_{13}H_{10}N_2O_3$	o-2-Nitrobenzylideneaminophenol	3300-3400	Sol	Freq, I, H bond	Badger	JCS -	(1958)	3437

Formula	Compound Name	Wavenumber Range	Solvent	Frequency / Band	Assignment	Reference	Year	Page
C ₁₃ H ₁₀ N ₂ O ₃	o-3-Nitrobenzylidene-aminophenol	3300-3400	Sol	Freq, H bond, I		Bandger	JCS - (1958)	3437
C ₁₃ H ₁₀ N ₂ O ₃	o-4-Nitrobenzylidene-aminophenol	3300-3400	Sol	Freq, H bond, I		Badger	JCS - (1958)	3437
C ₁₃ H ₁₀ N ₂ O ₃	4-Nitrosalicylidene-aniline	-	Sol	H bond, Stretch freq		Reeves	CJC 38 (1960)	1249
C ₁₃ H ₁₀ N ₂ O ₃	p-Nitrostyrylpyridine-1-oxide	700-1700	Sol	Substitution effect		Katritzky	JCS - (1959)	2051
C ₁₃ H ₁₀ N ₂ O ₇ S	2,4-Dinitrophenyl p-toluenesulfonate	800-1620	S	Band freq		Tipson	JACS 74 (1952)	1354
C ₁₃ H ₁₀ N ₄ O ₄	Benzaldehyde-2,4-dinitrophenylhydrazone	6-15 μ 2-15 μ	S	Spec, Table Spec, Ident		Ross Jones	AC 25 (1953) AC 28 (1956)	1303 191
C ₁₃ H ₁₀ N ₄ O ₅	3-(2-Furyl)acrylaldehyde 2,4-dinitrophenylhydrazone	2-15 μ	S	Spec, Ident		Jones	AC 28 (1956)	191
C ₁₃ H ₁₀ N ₄ O ₅	o-Hydroxybenzaldehyde 2,4-dinitrophenylhydrazone	2-15 μ	S	Spec, Ident		Jones	AC 28 (1956)	191
C ₁₃ H ₁₀ O	Benzophenone	7-2.5 μ 3-10 μ 1050-1800	Sol - -	Band study Spec Absorption freq, Spec		Ellis Taschek Barnes	JACS 51 (1929) JCP 7 (1939) IEC 15 (1943)	1384 11 659
		500-1750 1800-1650 1659-1668	S Sol Sol	Assign Ext coeff Group freq, I		Thompson Cross Barrow	JCS - (1945) TFS 47 (1951) JCP 21 (1953)	640 354 2008
		- 1600-1800	- Sol	Ident Group freq		Detar Josien	JACS 75 (1953) JCP 21 (1953)	5117 331
		- 1600-1800	Sol Sol	Anal Band study		Newman Fuson	JACS 75 (1953) JACS 76 (1954)	2322 2526
		- 650-1740	Sol Sol	Solvent effect, I Freq, Shift, IR		Hirota Bellamy	BCSJ 27 (1954) JCS - (1955)	295 4221

	3000-3800	Sol	Spec, H bond Ident	Boealey Entel	JACS JACS	77 (1955) 77 (1955)	4462 611
	-	-	Dielectric constant	Krishna	TFS	53 (1957)	767
	-	-	Freq	Rao	CS	26 (1957)	375
	-	Sol	Substitution effect	Thompson	SA	9 (1957)	208
	1760-1560	Sol	Freq, I, Solvent effect	Archibald	SA	12 (1958)	34
	-	Sol	Freq, I	Thompson	SA	13 (1958)	236
	1650-1850	Sol, G, L	Solvent effect	Bellamy	TFS	55 (1959)	14
	-	Sol	Solvent effect	Ito	JCP	31 (1959)	1694
	-	Sol	Freq, I	Mirone	ANCR	49 (1959)	52
	-	Sol	Freq	Brook	JACS	82 (1960)	5102
C ₁₃ H ₁₀ OS	2.5-16 μ	Sol	Struct, Freq	Nyquist	SA	15 (1959)	514
C ₁₃ H ₁₀ O ₂	700-4000	S, L	Table, Group freq	Flett	JCS	- (1951)	962
C ₁₃ H ₁₀ O ₂	5.5-6.5 μ	Sol	Substitution effect, Ident	Sawicki	AC	31 (1959)	523
C ₁₃ H ₁₀ O ₂	-	-	Review paper	Wasserman	JACS	77 (1955)	973
C ₁₃ H ₁₀ O ₂	2200-1700	Sol	Band freq	Celmer	JACS	74 (1952)	3838
	2-16 μ	Sol	Spec	Celmer	JACS	74 (1952)	1870
C ₁₃ H ₁₀ O ₂	3200-1700	Sol	Band freq	Celmer	JACS	74 (1952)	1870
	2-16 μ	Sol	Band freq	Celmer	JACS	74 (1952)	2245
	-	-	Group freq	Orosnik	JACS	75 (1953)	1050
C ₁₃ H ₁₀ O ₂	1700-1800	Sol	Stretch freq	Short	JCS	- (1952)	206
	-	Sol	IR carbonyl freq	Exner	CIL	- (1958)	1174
	-	Sol	Freq, I	Thompson	SA	13 (1958)	236
	-	Sol	Freq	Horak	TEL	- (1959)	19
C ₁₃ H ₁₀ O ₂	-	-	Ident	Hammond	JACS	76 (1954)	4081
C ₁₃ H ₁₀ O ₂	2.5-15 μ	Sol	Spec	Doering	JACS	75 (1953)	2387

$C_{13}H_{10}O_2$	β -Phenyltropolone	2-16 μ	Sol	Spec	Doering	JACS 75 (1953)	297
$C_{13}H_{10}O_2$	γ -Phenyltropolone	2-16 μ	Sol	Spec	Doering	JACS 75 (1953)	297
$C_{13}H_{10}O_2$	Toluquinone	-	-	Substitution effect	Flagg	NWS 43 (1956)	467
$C_{13}H_{10}O_2S$	Thiaxanthene-9,9-dioxide	-	Sol	Group freq	Waight	JOS - (1952)	2440
$C_{13}H_{10}O_2S$	Phenylthio salicylate	2.5-16 μ	Sol	Struct, Freq	Nyquist	SA 15 (1959)	514
$C_{13}H_{10}O_2S_2$	α -Naphthylcarboxymethyl-dithio acetate	400-4000	S	Spec, Freq	Bak	ACS 12 (1958)	1451
$C_{13}H_{10}O_2S_2$	β -Naphthylcarboxymethyl-dithio acetate	400-4000	S	Spec, Freq	Bak	ACS 12 (1958)	1451
$C_{13}H_{10}O_3$	4-Benzoylcatechol	3 μ	Sol	Stretch freq, Hammett const	Ingraham	JACS 74 (1952)	2297
$C_{13}H_{10}O_3$	Cinnamenylitaconic anhydride	-	S	Group freq	Walker	JACS 76 (1954)	6205
$C_{13}H_{10}O_3$	2,2'-Dihydroxybenzophenone	-	-	H bond	Pinchas	AC 29 (1957)	334
$C_{13}H_{10}O_3$	Diphenyl carbonate	1-12 μ	L	Spec, Group assign	Bell	JACS 50 (1928)	2940
		-	Sol	Struct, Dissociation	Hales	JCS - (1957)	618
		700-4000	S	Freq, Assign	Catehouse	JCS - (1958)	3137
		-	Sol	Freq, I	Thompson	SA 13 (1958)	236
$C_{13}H_{10}O_3$	Phenyl salicylate	-	Sol	H bond	Hilbert	JACS 58 (1936)	548
		2.6-3.2 μ	Sol	Spec, H bond	Gordy	JCP 7 (1939)	167
		-	-	Ident	Detar	JACS 77 (1955)	4411
$C_{13}H_{10}O_4$	5,6-Dihydro-2-hydroxy-3-carboxy-1-naphthalene-acetic acid lactone	-	-	Group study	Tarbell	JACS 76 (1954)	5761
$C_{13}H_{10}O_4$	2-Hydroxy-2'-carboxy-phenoxybenzoic acid	-	Sol	Band & Group freq, Table	Ungnade	JOC 16 (1951)	1318

$C_{13}H_{10}O_4$	2-Hydroxy-3-carboxy- phenoxybenzoic acid	-	Sol	Band & Group freq, Table	Ungnade	JOC	16 (1951)	1318
$C_{13}H_{10}O_4$	2-Hydroxy-3'-carboxy- phenoxybenzoic acid	-	Sol	Band & Group freq, Table	Ungnade	JOC	16 (1951)	1318
$C_{13}H_{10}O_4$	2-Hydroxy-4-carboxy- phenoxybenzoic acid	-	Sol	Band & Group freq, Table	Ungnade	JOC	16 (1951)	1318
$C_{13}H_{10}O_4$	2-Hydroxy-4'-carboxy- phenoxybenzoic acid	-	Sol	Band & Group freq, Table	Ungnade	JOC	16 (1951)	1318
$C_{13}H_{10}O_4$	2-Hydroxy-5-carboxy- phenoxybenzoic acid	-	Sol	Band & Group freq, Table	Ungnade	JOC	16 (1951)	1318
$C_{13}H_{10}O_4$	2-Hydroxy-6-carboxy- phenoxybenzoic acid	-	Sol	Band & Group freq, Table	Ungnade	JOC	16 (1951)	1318
$C_{13}H_{10}O_4$	3-Hydroxy-2-carboxy- phenoxybenzoic acid	-	Sol	Band & Group freq, Table	Ungnade	JOC	16 (1951)	1318
$C_{13}H_{10}O_4$	3-Hydroxy-2'-carboxy- phenoxybenzoic acid	-	Sol	Band & Group freq, Table	Ungnade	JOC	16 (1951)	1318
$C_{13}H_{10}O_4$	3-Hydroxy-3'-carboxy- phenoxybenzoic acid	-	Sol	Band & Group freq, Table	Ungnade	JOC	16 (1951)	1318
$C_{13}H_{10}O_4$	3-Hydroxy-4-carboxy- phenoxybenzoic acid	-	Sol	Band & Group freq, Table	Ungnade	JOC	16 (1951)	1318
$C_{13}H_{10}O_4$	3-Hydroxy-4'-carboxy- phenoxybenzoic acid	-	Sol	Band & Group freq, Table	Ungnade	JOC	16 (1951)	1318
$C_{13}H_{10}O_4$	3-Hydroxy-5-carboxy- phenoxybenzoic acid	-	Sol	Band & Group freq, Table	Ungnade	JOC	16 (1951)	1318
$C_{13}H_{10}O_4$	3-Hydroxy-6-carboxy- phenoxybenzoic acid	-	Sol	Band & Group freq, Table	Ungnade	JOC	16 (1951)	1318

Chemical	Formula	Sol	Band & Group freq, Table	Ungnade	JOC	16 (1951)	1318
4-Hydroxy-2-carboxy-phenoxybenzoic acid	$C_{13}H_{10}O_4$	-	Band & Group freq, Table	Ungnade	JOC	16 (1951)	1318
4-Hydroxy-2'-carboxy-phenoxybenzoic acid	$C_{13}H_{10}O_4$	Sol	Band & Group freq, Table	Ungnade	JOC	16 (1951)	1318
4-Hydroxy-3-carboxy-phenoxybenzoic acid	$C_{13}H_{10}O_4$	Sol	Band & Group freq, Table	Ungnade	JOC	16 (1951)	1318
4-Hydroxy-3'-carboxy-phenoxybenzoic acid	$C_{13}H_{10}O_4$	Sol	Band & Group freq, Table	Ungnade	JOC	16 (1951)	1318
4-Hydroxy-4'-carboxy-phenoxybenzoic acid	$C_{13}H_{10}O_4$	Sol	Group & Band freq, Table	Ungnade	JOC	16 (1951)	1318
Visnagin	$C_{13}H_{10}O_4$	8-10 μ	Spec	Williams	IL	3 (1952)	7
Bromodiphenylmethane	$C_{13}H_{11}Br$	Sol	Band freq	Pinchas	JCS	- (1954)	863
p-Bromophenacylpenta-3,4-dienoate	$C_{13}H_{11}BrO_3$	-	I, Band study	Jones	JCS	- (1954)	3201
N-Tosyl-2,4-dibromoaniline	$C_{13}H_{11}Br_2O_2S$	-	Ident	Weisblat	JACS	75 (1953)	3630
cis-3-(1-Naphthyl)-1-chloro-1-propene	$C_{13}H_{11}Cl$	2-15 μ	Spec	Wolfe	JACS	76 (1954)	627
trans-3(1-Naphthyl)-1-chloro-1-propene	$C_{13}H_{11}Cl$	2-15 μ	Spec	Wolfe	JACS	76 (1954)	627
N'-Benzoyl-2-chloro-p-phenylenediamine	$C_{13}H_{11}ClN_2O$	S	Group freq	Adams	JACS	76 (1954)	3584
cis-(4-chlorobenzylazoxy)benzene	$C_{13}H_{11}ClN_2O$	S	Struct	Brough	JCS	- (1954)	4069
trans-(4-chlorobenzylazoxy)benzene	$C_{13}H_{11}ClN_2O$	S	Struct	Brough	JCS	- (1954)	4069

$C_{13}H_{11}ClN_2O$	trans-p-chloro- ω (phenyl-azoxy)toluene	-	S	Struct	Brough	JCS - (1954)	4069
$C_{13}H_{11}Cl_3NB$	4-Styrylpyridine boron trichloride complex	600-4000	Sol	Freq	Katritzky	JCS - (1958)	4155
$C_{13}H_{11}N$	2-Aminofluorene	3μ	Sol	Freq, FC	Elliot	JCS - (1959)	1275
$C_{13}H_{11}N$	N-Benzylidineaniline	-	Sol	Freq	Clougherty	JOC 22 (1957)	462
$C_{13}H_{11}N$	5,6-Dihydrophenanthridine	600-4000	S	Spec, Band study	Heacock	CJC 34 (1956)	1782
$C_{13}H_{11}N$	Diphenyl ketimine	-	-	Group study	Pickard	JACS 76 (1954)	5169
$C_{13}H_{11}N$	9-Fluorolamine	6400-6800	Sol	Band study	Liddel	JACS 55 (1933)	3574
$C_{13}H_{11}N$	3-Methyl-7,8-benzopyrrocoline	6300-6800	Sol	Spec, Group anal	Wulf	JACS 57 (1935)	1464
$C_{13}H_{11}N$	1-Methylcarbazole	730-930	S	Ident	Boekelheide	JACS 75 (1953)	3679
$C_{13}H_{11}N$	2-Methylcarbazole	-	Sol	Spec, Quant anal Band freq, Ext coeff, I	Richards Russell	JCS - (1947) JCS - (1955)	978 483
$C_{13}H_{11}N$	3-Methylcarbazole	730-930	S	Spec, Quant anal	Richards	JCS - (1947)	978
$C_{13}H_{11}N$	4-Methylcarbazole	730-930	S	Spec, Quant anal Band freq, Ext coeff, I	Richards Russell	JCS - (1947) JCS - (1955)	978 483
$C_{13}H_{11}N$	9-Methylcarbazole	730-930	S	Spec, Quant anal	Richards	JCS - (1947)	978
$C_{13}H_{11}N$	2-Styrylpyridine	4000-600	Sol	Struct	Witkop	JACS 75 (1953)	2572
$C_{13}H_{11}N$	4-Styrylpyridine	4000-600	Sol	Substitution effect	Katritzky	JCS - (1958)	4155
$C_{13}H_{11}N$	4-Styrylpyridine	4000-600	Sol	Substitution effect	Katritzky	JCS - (1958)	4155

$C_{13}H_{11}NO$			Band freq, Ident	Detar	JACS	75 (1953)	5117
$C_{13}H_{11}NO$	o-Aminobenzophenone	-			JACS	75 (1953)	5117
$C_{13}H_{11}NO$	p-Aminobenzophenone	800-4000 1600-1800	Spec, Struct Group study	Curtin Fuson	JACS	76 (1954)	494
$C_{13}H_{11}NO$	Benzanilide	1500-1700	Speco, Assign	Richards	JCS	-	(1947) 1248
$C_{13}H_{11}NO$		1658-3330	Group freq FC	Flett Richards	JCS	-	(1948) 1441
$C_{13}H_{11}NO$		-	Group freq, I	Hein	TFS	44 (1948)	40
$C_{13}H_{11}NO$		3 μ	Band study	Russell	JACS	76 (1954)	2725
$C_{13}H_{11}NO$	Benzophenone oxime	4000-420	Spec, Assign	Gray	SA	8 (1956)	138
$C_{13}H_{11}NO$		4000-600	Substitution effect	Katritzky	DA	19 (1958)	454
$C_{13}H_{11}NO$		-	Assign, I, Struct	Katritzky Katritzky	JCS	-	(1958) 4155
$C_{13}H_{11}NO$		2700-3900	Spec, H bond	Buswell	JCS	-	(1959) 2067
$C_{13}H_{11}NO$	4-Benzoylmethylpyridine	4000-600	Substitution effect	Katritzky	JACS	60 (1938)	2444
$C_{13}H_{11}NO$	o-Benzylideneamino-phenol	-	Freq	Clougherty	JCS	-	(1958) 4155
$C_{13}H_{11}NO$		3300-3400	Substitution effect	Badger	JOC	22 (1957)	462
$C_{13}H_{11}NO$	p-Benzylideneamino-phenol	3300-3400	Substitution effect	Badger	JCS	-	(1958) 3437
$C_{13}H_{11}NO$			2-15 μ	Spec, Anal, Group freq	Pristera	AC	25 (1953)
$C_{13}H_{11}NO$	N-(4-hydroxy)benzylidene-aniline	-	Freq	Clougherty	JOC	22 (1957)	462
$C_{13}H_{11}NO$	3-Hydroxy-2-methyl-carbazole	-	Ident	Cummins	JOS	-	(1954) 1414
$C_{13}H_{11}NO$			3300-3400	Freq Freq, H bond, I	Clougherty Badger	JOC	22 (1957)
$C_{13}H_{11}NO$	2-Styrylpyridine-N-oxide	4000-600	Substitution effect	Katritzky	JCS	-	(1958) 4155
$C_{13}H_{11}NO$	4-Styrylpyridine-N-oxide	4000-600	Substitution effect	Katritzky	JCS	-	(1958) 2192

$C_{13}H_{11}NO$	600-3000	Sol	Substitution effect	Katritzky	JCS -	(1958)	4155
1,2,3,4-Tetrahydro-4-oxo-5,6-benzoquinoline	-	-	Group freq, Ident	Braunholtz	JCS -	(1954)	651
$C_{13}H_{11}NOS$	-	-	Band study, Struct	Charles	JOC	18 (1953)	422
2-(o-Hydroxyphenyl)benzothiazoline	-	-	Group freq	Djerassi	JACS	76 (1954)	4470
$C_{13}H_{11}NOS \cdot HBr$	-	Sol	Group freq				
2-(2-Pyridylthio)acetophenone hydrobromide	-	Sol	Table, Group freq	Flett	JCS -	(1951)	962
$C_{13}H_{11}NO_2$	700-4000	S,L, Sol	Spec Band freq	Witkop Witkop	JACS	74 (1952)	3855
2-Anilinobenzoic acid	-	-	Ident	Branch	N	177 (1956)	671
o-Benzoylaminophenol	-	-	Spec	Detar	JACS	77 (1955)	4393
2p-Hydroxyphenacylpyridine	-	S,Sol	Ident	Hadzi	SA	10 (1958)	38
$C_{13}H_{11}NO_2$	-	-	Spec, H bond				
2-Methyl-6-nitrophenyl	-	-	Ident				
$C_{13}H_{11}NO_2$	700-4000	S,Sol	Spec, H bond				
N-Phenylbenzohydroxamic acid	-	-	Ident				
$C_{13}H_{11}NO_2$	3300-3400	Sol	Group study				
o-Salicylideneamino-phenol	-	Sol	Substitution effect	Clougherty Badger	JOC	22 (1957)	462
$C_{13}H_{11}NO_2$	-	Sol	Struct	Kross	JACS	78 (1956)	4225
p-Nitro-p'-methylidiphenyl sulfide	1300-1600	S,Sol	Group study	Marrow	JACS	76 (1954)	4622
$C_{13}H_{11}NO_3$	-	-	Substitution effect	Momose	CPBT	6 (1958)	412
Benzhydryl nitrate	-	-	Ident	Tanner	SA	9 (1957)	282
$C_{13}H_{11}NO_3S$	-	S	Struct				
p-Formylphenyl phenyl sulfone oxime	-	S	Struct				
$C_{13}H_{11}NO_4$	-	-	Struct				
N-Acetyl-2-carboxy-3-oxo-5-phenyl-2,3-dihydro-	-	-	Struct				

C ₁₃ H ₁₁ NO ₇	S	Group study	Haslem	JCS	(1955)	827
Tetrahydro-2-hydroxymethyl 1-(3,4-methylenedioxy-6- nitrophenyl)furan-3- carboxylic lactone	-	Group study	Haslem	JCS	-	(1955) 827
C ₁₃ H ₁₁ NO ₈ S ₂	S, L	Table, Group freq	Flett	JCS	-	(1951) 962
2-Amino-3-carboxyphenyl 2-hydroxy-4-sulfoxyphenyl sulfone	700-4000					
C ₁₃ H ₁₁ NS	S, Sol	Spec, Freq	Hadzi	JCS	-	(1957) 847
Methyl di-p-nitrophenyl- phosphate	600-1700					
C ₁₃ H ₁₁ N ₂ O ₈ P	-	Freq, assign	Ketelaar	RFC	78	(1959) 190
2-Thio-3-o-nitrophenyl-5- (5'-imidazolylmethyl) hydantoin	600-4000	Spec, Ident	Epp	AC	29	(1957) 1283
C ₁₃ H ₁₂	Sol	Spec	Fox	PRS	167	(1938) 257
Diphenylmethane	3.1-3.7μ	Bond study	Wall	JACS	61	(1939) 1053
	3.2-3.6μ	Spec, H bond	Wall	JACS	61	(1939) 2812
	2.7-3.8μ	FC	Linnett	TFS	41	(1945) 223
	-	Spec, Assign	Richards	JCS	-	(1947) 1260
	700-1500	Anal	Dannley	JACS	77	(1955) 1588
	-	Spec	Izrailevich	DANS	111	(1956) 617
	4000-600	Substitution effect	Katritzky	JCS	-	(1958) 4155
C ₁₃ H ₁₂	L	Spec	Cannon	SA	4	(1951) 373
2-Methylbiphenyl	650-2030	Anal	Dannley	JACS	77	(1955) 1588
	-	Ident, Anal	Rondestvedt	JACS	77	(1955) 1769
C ₁₃ H ₁₂	Sol	Anal	Hibbard	AC	21	(1949) 486
3-Methylbiphenyl	8000-9000	Spec	Cannon	SA	4	(1951) 373
	640-2000	Spec, Ident	Adams	AC	25	(1953) 1073
	9.2-14.7μ	Anal	Dannley	JACS	77	(1955) 1588
	-	Anal	Rondestvedt	JACS	77	(1955) 1769
C ₁₃ H ₁₂	Sol	Spec	Cannon	SA	4	(1951) 373
4-Methylbiphenyl	660-2000	Anal	Dannley	JACS	77	(1955) 1588
	-	Anal	Rondestvedt	JACS	77	(1955) 1769

$C_{13}H_{12}$	1-Methyl-2-phenyl- benzene	15-35 μ	S	Spec, Struct	Bentley	SA	15 (1959)	165
$C_{13}H_{12}$	1-Methyl-3-phenyl- benzene	15-35 μ	S	Spec, Struct	Bentley	SA	15 (1959)	165
$C_{13}H_{12}$	6-Methyl-6-phenylfulvene	4000-660	Sol	Spec	Wood	AC	30 (1958)	1339
$C_{13}H_{12}BrN$	N-Benzyl-p-bromoaniline	3370-3470	Sol	Group study	Ok1	BCSJ	33 (1960)	784
$C_{13}H_{12}ClN$	N-Benzyl-2-chloroaniline	3500-3200 3300-3500	Sol S,Sol	Substitution effect Stretch freq, Config	Moritz Moritz	SA SA	15 (1959) 16 (1960)	242 1176
$C_{13}H_{12}ClN$	N-m-chlorobenzylaniline	3370-3470	Sol	Group study	Ok1	BCSJ	33 (1960)	784
$C_{13}H_{12}ClN$	N-Benzyl-4-chloroaniline	3500-3200 3300-3500	Sol S,Sol	Substitution effect Stretch freq, Config	Moritz Moritz	SA SA	15 (1959) 16 (1960)	242 1176
$C_{13}H_{12}ClN$	N-p-chlorobenzylaniline	3370-3470	Sol	Group study	Ok1	BCSJ	33 (1960)	784
$C_{13}H_{12}ClNO$	N-2-Hydroxybenzyl-3- chloroaniline	3500-3200	Sol	Spec, Freq	Moritz	SA	15 (1959)	242
$C_{13}H_{12}ClNO$	N-2-Hydroxybenzyl-4- chloroaniline	3500-3200	Sol	Spec, Freq	Moritz	SA	15 (1959)	242
$C_{13}H_{12}ClNO_3S$	N-Benzenesulfonyl-2- chloro-6-methoxyaniline	-	-	Struct	Adams	JACS	75 (1953)	5901
$C_{13}H_{12}ClNO_3S$	N-Benzenesulfonyl-3- chloro-2-methoxyaniline	-	-	Struct	Adams	JACS	75 (1953)	5901
$C_{13}H_{12}ClNO_3S$	N-Benzenesulfonyl-5- chloro-2-methoxyaniline	-	-	Struct	Adams	JACS	75 (1953)	5901
$C_{13}H_{12}Cl_2NO_3P$	Di-p-Chlorophenylmethyl phosphoramide	-	-	Freq, Assign	Keteleaar	RTC	78 (1959)	190

C ₁₃ H ₁₂ N ₂ O ₂	2,3,5-Trichloro-6-(2'-piperidinovinyl)-p-benzoquinone	2200-8000	Sol	Absorption study	Buckley	JCS	(1957)	4891
C ₁₃ H ₁₂ N ₂	p-Methylazobenzene	600-1700	S	Spec, Freq	Lefevre	AJC	10 (1957)	26
C ₁₃ H ₁₂ N ₂ O	2-p-Aminophenacylpyridine	-	S,Sol	Freq	Branch	N	177 (1956)	671
C ₁₃ H ₁₂ N ₂ O	2-N-Benzoyl-N-methylaminopyridine	600-4000	Sol	Substitution effect	Katritzky	JCS	- (1958)	4155
		-	Sol	Assign, Struct, I	Katritzky	JCS	- (1959)	2067
C ₁₃ H ₁₂ N ₂ O	3-N-Benzoyl-N-methylaminopyridine	600-3000	Sol	Assign	Katritzky	JCS	- (1958)	3165
		600-4000	Sol	Substitution effect	Katritzky	JCS	- (1958)	4155
		-	Sol	Assign, Struct, I	Katritzky	JCS	- (1959)	2067
C ₁₃ H ₁₂ N ₂ O	4-N-Benzoyl-N-methylaminopyridine	-	Sol	Assign, Struct, I	Katritzky	JCS	- (1959)	2067
C ₁₃ H ₁₂ N ₂ O	Benzoylphenylhydrazine	-	-	Ident	Witkop	JACS	75 (1953)	1975
C ₁₃ H ₁₂ N ₂ O	Benzylazoxybenzene	-	-	Group freq, Struct	Lynch	JCS	- (1953)	2517
C ₁₃ H ₁₂ N ₂ O	N,N-Diphenylurea	2-15 μ 3 μ	Sol	Spec, Group anal, Freq	Priester	AC	25 (1953)	844
			Sol	Band freq	Russell	SA	8 (1956)	138
C ₁₃ H ₁₂ N ₂ O	1,3-Diphenylurea	-	-	H bond	Kutepov	ZOK	30 (1960)	3448
C ₁₃ H ₁₂ N ₂ O	p-Methoxyazobenzene	-	S	Freq	Lefevre	AJC	10 (1957)	26
C ₁₃ H ₁₂ N ₂ O	4-Phenylazo-o-methylphenol	2800-3000	S,Sol	Assign, Struct	Hadzi	JCS	- (1956)	2143
C ₁₃ H ₁₂ N ₂ O	N-Phenyl-N'-tolyl-diimide-N-monoxide	600-1600	L,S, Sol	Freq	George	CJC	37 (1959)	679
C ₁₃ H ₁₂ N ₂ O	N-Phenyl-N'-tolyl-diimide-N'-monoxide	600-1600	L,S, Sol	Freq	George	CJC	37 (1959)	679

$C_{13}H_{12}N_2O$	ω -(4-Pyridyl)acetanilide	4000-600	Sol	Substitution effect	Katritzky	JCS - (1958)	4155
$C_{13}H_{12}N_2O$	Salicylaldehyde phenylhydrazone	6400-6700	Sol	Spec, H bond	Hendricks	JACS 58 (1936)	1991
$C_{13}H_{12}N_2O$	α -Styrylamino-pyridine-N-oxide	800-3000	Sol	Substitution effect	Katritzky	JCS - (1958)	2195
$C_{13}H_{12}N_2O_2$	2-Acetyl-1,2,3,4-tetrahydro-1-oxo- β -carboline	6 μ	S	Band study	Abramovitch	JCS - (1957)	1413
$C_{13}H_{12}N_2O_2$	2-N-Benzoyl-N-methylaminopyridine-N-oxide	800-3000 600-4000	Sol Sol Sol	Substitution effect Substitution effect Assign, Struct, I	Katritzky Katritzky Katritzky	JCS - (1958) JCS - (1958) JCS - (1959)	2195 4155 2067
$C_{13}H_{12}N_2O_2$	4-N-Benzoyl-N-methylaminopyridine-N-oxide	600-4000	Sol Sol	Substitution effect Assign, Struct, I	Katritzky Katritzky	JCS - (1958) JCS - (1959)	4155 2067
$C_{13}H_{12}N_2O_2$	N-Benzyl-m-nitroaniline	3370-3470	Sol	Group study	Ok1	BCSJ 33 (1960)	784
$C_{13}H_{12}N_2O_2$	N-Benzyl-2-nitroaniline	3500-3200 3300-3500	Sol S,Sol	Substitution effect H bond, Stretch freq	Moritz Moritz	SA 15 (1959) SA 16 (1960)	242 1176
$C_{13}H_{12}N_2O_2$	N-Benzyl-4-nitroaniline	3300-3500 3370-3470	S,Sol Sol	H bond, Stretch freq Group study	Moritz Ok1	SA 16 (1960) BCSJ 33 (1960)	1176 784
$C_{13}H_{12}N_2O_2$	N-Benzyl-N'-phenyl-diimide dioxide	600-1600	L,S, Sol	Freq	George	CJC 37 (1959)	679
$C_{13}H_{12}N_2O_3$	5-Allyl-5-phenylbarbituric acid	2.5-16 μ	S	Spec	Levi	AC 28 (1956)	1591
$C_{13}H_{12}N_2O$	N-2-Hydroxybenzyl-3-nitroaniline	3500-3200	Sol	Spec, Freq	Moritz	SA 15 (1959)	242
$C_{13}H_{12}N_2O_3S$	Phenyl p-tolylazoxy sulfone	600-1800	S	Spec assign	LeFerve	AJC 6 (1953)	341

$C_{13}H_{12}O$	Perinaphthanone-7	1100-1800 1600-1800	S Sol	Spec, Group freq Group freq	Josien Cromwell	JCP 21 (1953) JACS 75 (1953)	331 872
$C_{13}H_{12}O$	m-Phenylbenzyl alcohol	-	-	Rotational iso	Ok1	BCSJ 32 (1959)	955
$C_{13}H_{12}O$	p-Phenylbenzyl alcohol	-	-	Rotational iso	Ok1	BCSJ 32 (1959)	955
$C_{13}H_{12}O_2$	4-Benzoyloxyphenol	3 μ	Sol	Stretch freq, Hammett const	Ingraham	JACS 74 (1952)	2297
		3500-3800	Sol	Hammett const, Freq	Puttnam	JCS - (1960)	5100
$C_{12}H_{12}O_2$	2,2'-Dihydroxydiphenyl- methane	700-3700	L,S, Sol	Spec, Assign	Richards	JCS - (1947)	1260
$C_{13}H_{12}O_2$	2,4'-Dihydroxydiphenyl- methane	700-3700	L,S, Sol	Spec, Assign	Richards	JCS - (1947)	1260
$C_{13}H_{12}O_2$	4,4'-Dihydroxydiphenyl- methane	700-3700	L,S, Sol	Spec, Assign	Richards	JCS - (1947)	1260
$C_{13}H_{12}O_2$	DI-(o-Hydroxyphenyl)- methane	600-1300	-	Spec	Thompson	JCS - (1947)	289
$C_{13}H_{12}O_2$	trans-3,6-Di oxo-4,5-benzhy- drindane	-	-	Group freq	Amiel	JACS 76 (1954)	3625
$C_{13}H_{12}O_2$	2-Ethoxy-1-naphthaldehyde	-	Sol	Group & Band freq	Pinchas	AC 27 (1955)	2
$C_{13}H_{12}O_2$	α -Ethyl naphthoate	1000-550	S,Sol	Solvent effect	Wang	SA 15 (1959)	1118
$C_{13}H_{12}O_2$	9- α -Furyl-2,4,6,8-nona- tetraenal	1400-2000	S,Sol	Spec	Blout	JACS 70 (1948)	194
$C_{13}H_{12}O_2$	1,2,3,4-Tetrahydro-1-methyl 3-oxodibenzofuran	-	-	Group freq	Macmillan	JCS - (1954)	429
$C_{13}H_{12}O_2S$	p-Methylphenyl phenyl sulfone	-	S	Substitution effect	Momose	CPBT 6 (1958)	412

$C_{13}H_{12}O_2S$	Phenyl benzyl sulfone	1000-1500	Sol	Spec	Schreiber	AC	21 (1949)	1168
$C_{13}H_{12}O_3$	Ethyl-2-naphthyl carbonate	-	-	Group freq, Struct	Tsou	JACS	76 (1954)	3704
$C_{13}H_{12}O_3S$	o-Methoxydiphenyl sulfone	-	S	Group freq	Amstutz	JACS	73 (1951)	1220
$C_{13}H_{12}O_3S$	p-Methoxydiphenyl sulfone	-	S	Group freq	Amstutz	JACS	73 (1951)	1220
$C_{13}H_{12}O_3S$	Phenyl p-toluenesulfonate	800-1620	S	Band freq	Tipson	JACS	74 (1952)	1354
$C_{13}H_{12}O_4$	Cinnamenylitaconic acid	-	S	Struct	Walker	JACS	76 (1954)	6205
$C_{13}H_{12}O_4$	1',4'-Dimethoxybenzocycloheptene-3,7-dione	-	Sol	Freq	Farmer	JCS	- (1956)	3600
$C_{13}H_{12}O_4$	Methyl 3-hydroxy-2-naphthylglycolate	-	S	Band study	Soffer	JACS	74 (1952)	1556
$C_{13}H_{12}O_4S$	2-Hydroxy-4-methoxy-(phenylsulfonyl)benzene	-	Sol	Group freq	Amstutz	JACS	73 (1951)	1220
$C_{13}H_{12}O_4S$	2-Methoxy-4-hydroxy-(phenylsulfonyl)benzene	-	Sol	Group freq	Amstutz	JACS	73 (1951)	1220
$C_{13}H_{12}O_5$	3,4-Dimethoxyphenylitaconic anhydride	-	Sol	Band freq, Struct	Walker	JACS	75 (1953)	3390
$C_{13}H_{12}O_5$	Dimethylpurpurogallin	-	Sol	Band study	Bryant	JOC	19 (1954)	1889
$C_{13}H_{12}O_6$	Acetylglycolic acid	-	S	Group freq	Grove	JCS	- (1952)	3345
$C_{13}H_{12}O_6$	3,4-Diacetoxycinnamic acid	4000-600	-	Spec, Freq	Herzert	JOC	25 (1960)	405
$C_{13}H_{12}O_6$	3,6-Dimethoxy-5-methyl-4-acetylphthalic acid anhydride	-	-	Group freq	Lister	HCA	38 (1955)	215
$C_{13}H_{12}O$	Terracinoic acid	2-16 μ	Sol	Spec, Band freq	Pasternack	JACS	74 (1952)	1928

$C_{13}H_{12}O_7$	4-Carboxy-2,5-dihydroxy-3-methylindanonone-2-acetic acid	-	-	Band study	Pasternack	JACS 74 (1952)	1928
$C_{13}H_{12}S$	Phenyl benzyl sulfide	1000-1500	Sol	Spec	Schreiber	AC 21 (1949)	1168
$C_{13}H_{13}BrO_2$	1-Hydroxy-1-p-bromophenyl-cyclohexane-2-carboxylic acid- β -lactone	2-16 μ	Sol	Spec, Band freq	Bartlett	JACS 73 (1951)	4275
$C_{13}H_{13}BrSi$	Methylphenyl-p-bromo-phenylsilane	2-16 μ	Sol	Freq	Kniseley	SA 15 (1959)	651
$C_{13}H_{13}ClO_6$	β -(7-ohloro-6-hydroxy-4-methoxy-3-oxocoumaran-2-yl)butyric acid	-	Sol	Spec	Duncanson	JCS - (1957)	3555
$C_{13}H_{13}ClSi$	Methyldiphenylchlorosilane	2-30 μ	Sol	Spec, Struct, Anal	Grenoble	AFS 14 (1960)	85
$C_{13}H_{13}ClSi$	Phenyl-o-chlorobenzylsilane	2-16 μ	Sol	Freq	Kniseley	SA 15 (1959)	651
$C_{13}H_{13}N$	N-Benzylaniline	-	Sol	Band freq, Ext coeff, I Substitution effect	Russell Moritz	JCS - (1955)	483
		3500-3200	Sol	Freq, Electronic effect	OkI	SA 15 (1959)	242
		-	-	Stretch freq, Config	Moritz	BCSJ 32 (1959)	955
		3300-3500	S,Sol	Group study	OkI	SA 16 (1960)	1176
$C_{13}H_{13}N$	N-Benzyl-p-hydroaniline	3370-3470	Sol	Group study	OkI	BCSJ 33 (1960)	784
$C_{13}H_{13}N$	Diphenylmethylamine	-	-	Anal Group freq	Dannley Hill	JOC 20 (1955)	92
		2900-3100	Sol	Group study	OkI	JCS - (1958)	760
$C_{13}H_{13}N$	N-m-Hydrobenzylaniline	3370-3470	Sol	Group study	OkI	BCSJ 33 (1960)	784
$C_{13}H_{13}N$	N-p-Hydrobenzylaniline	3370-3470	Sol	Group study	OkI	BCSJ 33 (1960)	784
$C_{13}H_{13}N$	Phenylethyl-2-pyridine	4000-600	Sol	Substitution effect	Katritzky	JCS - (1958)	4155

$C_{13}H_{13}N$	Phenylethyl-4-pyridine	4000-600	Sol	Substitution effect	Katritzky	JOS -	(1958)	4155
$C_{13}H_{13}N \cdot HCl$	N-Benzylaniline hydrochloride	2-8 μ	Sol	Spec	Nakanishi	BCSJ 30	(1957)	403
$C_{13}H_{13}N \cdot HBr$	N-Methyldiphenylamine hydrobromide	1000-3500	S	Band study	Chenon	CJC 36	(1958)	1181
$C_{13}H_{13}N \cdot HCl$	N-Methyldiphenylamine hydrochloride	1000-3500	S	Band study	Chenon	CJC 36	(1958)	1181
$C_{13}H_{13}N \cdot HI$	N-Methyldiphenylamine diiodide	1000-3500	S	Band study	Chenon	CJC 36	(1958)	1181
$C_{13}H_{13}NO$	o-Benzylaminophenol	-	Sol	Band freq	Witkop	JACS 74	(1952)	3861
$C_{13}H_{13}NO$	N-2-Hydroxybenzylaniline	3500-3200	Sol	Spec, Freq	Moritz	SA 15	(1959)	242
$C_{13}H_{13}NO$	N-(α -Naphthylmethylene)-2-aminoethanol-1	-	Sol	H bond, Group freq	Bergmann	CR 53	(1953)	309
$C_{13}H_{13}NO$	N-(β -Naphthylmethylene)-2-aminoethanol-1	-	-	H bond, Group freq	Bergmann	JACS 75	(1953)	68
$C_{13}H_{13}NO$	N-(β -Naphthylmethylene)-2-aminoethanol-1	-	Sol	H bond, Group freq	Bergmann	JACS 75	(1953)	68
$C_{13}H_{13}NO$	Phenylethyl-2-pyridine-1-oxide	4000-600	Sol	Substitution effect	Katritzky	JOS -	(1958)	4155
$C_{13}H_{13}NO$	Phenylethyl-4-pyridine-1-oxide	600-3000 4000-600	Sol	Substitution effect	Katritzky	JOS -	(1958)	2192
$C_{13}H_{13}NO_2$	N-Acetyl-3-indolylacetone	-	L	Ident	Brown	JOS -	(1952)	3172
$C_{13}H_{13}NO_2$	2,6-Dioxocyclohexylanilino-methylene	-	L,S	Band freq	Rogers	JOS -	(1955)	341
$C_{13}H_{13}NO_2$	Ethyl N- α -naphthylurethan	1000-3500	Sol	Spec, Assign, I	Katritzky	JOS -	(1960)	676
$C_{13}H_{13}NO_2$	Ethyl N- β -naphthyl-urethan	1000-3500	Sol	Spec, Assign, I	Katritzky	JOS -	(1960)	676

$C_{13}H_{13}NO_2$	β -2-Naphthylaminopropionic acid	-	-	-	Band freq, Struct	Braunholtz	JCS	-	(1954)	651		
$C_{13}H_{13}NO_2S$	L- α -Naphthylcysteine	2-15 μ	S		Spec, Anal, Struct	Fuson	JACS	74	(1952)	1		
$C_{13}H_{13}NO_2S \cdot HCl$	p-Aminomethylphenyl phenyl sulfone hydrochloride	-	S		Substitution effect	Momose	CPEP	6	(1958)	412		
$C_{13}H_{13}NO_3$	N-Acetyl- β -acetoxy-methylindole	2-10 μ	-		Spec	Geissman	JACS	74	(1952)	3916		
$C_{13}H_{13}NO_3$	N-Benzoyloxy- α,β -dimethylmaleinimide	-	S		Group freq	Ames	JCS	-	(1955)	631		
$C_{13}H_{13}NO_3$	β -Carbomethoxy-4-hydroxy-1-phenylpyrrole	2-8 μ	S		Table, I	Davoll	JCS	-	(1953)	3802		
$C_{13}H_{13}NO_3$	β -Carbomethoxy-2-methyl-4-oxo-1-phenyl- Δ^2 -pyrroline	2-8 μ	S		Table, I	Davoll	JCS	-	(1953)	3802		
$C_{13}H_{13}NO_3$	β -Carboxy-2,5-dimethyl-4-oxo-1-phenyl- Δ^2 -pyrroline	2-8 μ	S		Table, I	Davoll	JCS	-	(1953)	3802		
$C_{13}H_{13}NO_3$	Cyclopropyl 2-nitro- β -phenyl-1-cyclopropyl ketone	-	-		Spec, Band freq	Smith	JACS	73	(1951)	3831		
$C_{13}H_{13}NO_3$	Ethyl o-methyl- β -cyano- α -hydroxycinnamate	2-16 μ	S		Spec	Skinner	JACS	73	(1951)	2230		
$C_{13}H_{13}NO_3$	Ethyl p-methyl- β -cyano- α -hydroxycinnamate	2-16 μ	S		Spec	Skinner	JACS	73	(1951)	2230		
$C_{13}H_{13}NO_3$	4-Hydroxy-2, β -dimethyl-4-phenylcarbamoylbut-2-enoic lactone	724-3356	S		Table, Group freq	Ames	JCS	-	(1954)	375		

Compound	Sol	700-4000	Solvent effect, Assign	Holt	JCS	(Year)	1217
5-Methoxydiacetyloxy	Sol	700-4000	Solvent effect, Assign	Holt	JCS	(1958)	1217
2-Nitro-3-cyclopropyl-1-benzoylcyclopropane	-	-	Spec, Band freq	Smith	JACS	73 (1951)	3831
2-Phenylcarbamoylcyclohexane-1,3-dione	L,S	-	Band freq	Rogers	JCS	(1955)	341
Anhydrophenacetylglutamic acid	-	2.4-7 μ	Spec, Group freq	King	JACS	74 (1952)	5202
5-Carboethoxymethyl-1-methylisatin	Sol	1500-3500	Freq, Assing, Struct	Sadler	JCS	(1959)	667
5-Methoxydiacetyloxy	Sol	700-4000	Substitution effect	Holt	JCS	(1958)	1217
6-Methoxydiacetyloxy	Sol	700-4000	Substitution effect	Holt	JCS	(1958)	1217
5-(3',4'-Methylenedioxyphenyl)-4-nitrocyclohexene	S,Sol	700-1500	Group freq	Briggs	AC	29 (1957)	904
2-Nitro-3-hydroxytoluene- α , α -diol triacetate	Sol	3.3-9.9 μ	Group freq, Table, I	Ek	JACS	76 (1954)	5579
2-(Cyclohex-2-enylthio)benzothiazole	-	-	Ident	Moore	JCS	(1952)	4232
3-(Cyclohex-2-enylthio)-2-benzothiazoline	-	-	Ident	Moore	JCS	(1952)	4232
1,3-Diphenylguanidine	S	-	Group freq	Pickard	JACS	76 (1954)	5169
4-Methylaminoazobenzene	S	-	Spec, Freq	Lefevre	AJC	10 (1957)	26
2-Acetyl-3-acetylamino-5-phenylpyrazole	S	3.27-12.92 μ S	Table, Struct, Ident	Searles	JOC	19 (1954)	928
2,6-Dihydroxy-3,4-dimethyl-5-phenylazopyridine	S	756-1650	Table, Band freq	Ames	JCS	(1953)	3008

$C_{13}H_{13}O_2As$	Benzylphenylarsinic acid	600-4000	S, Sol	Group study	Braunholtz	JCS -	(1959)	868
$C_{13}H_{13}O_3P$	Phenyl-m-methoxyphenylhypophosphorous acid	600-4000	S, Sol	Group study	Braunholtz	JCS -	(1959)	868
$C_{13}H_{13}O_3P$	Phenyl-o-methoxyphenylhypophosphorous acid	600-4000	S, Sol	Group study	Braunholtz	JCS -	(1959)	868
$C_{13}H_{13}O_4P$	Benzylhydrogenphenylphosphate	600-5000	S	Spec, H bond	Peppard	JINC	12 (1960)	60
$C_{13}H_{14}$	1-Isopropyl-naphthalene	6-9/ μ 8000-9000 640-2000 15-35/ μ	- Sol L S	Spec Anal Spec Spec, Struct	Kutz Hibbard Cannon Bentley	JACS AC SA SA	70 (1948) 21 (1949) 4 (1951) 15 (1959)	4026 486 373 165
$C_{13}H_{14}$	2-Isopropyl-naphthalene	6-9/ μ 640-2000	- L	Spec Spec	Kutz Cannon	JACS SA	70 (1948) 4 (1951)	4026 373
$C_{13}H_{14}$	1,3,5-Trimethylnaphthalene	2-16/ μ 900-630	S, Sol S, Sol	Spec Substitution effect	Mosby Cencelj	JACS SA	74 (1952) 7 (1955)	2564 274
$C_{13}H_{14}$	1,3,8-Trimethylnaphthalene	2-16/ μ 900-630	S, Sol S, Sol	Spec Substitution effect	Mosby Cencelj	JACS SA	74 (1952) 7 (1955)	2564 274
$C_{13}H_{14}$	1,4,5-Trimethylnaphthalene	2-16/ μ	S, Sol	Spec	Mosby	JACS	74 (1952)	2564
$C_{13}H_{14}$	1,6,7-Trimethylnaphthalene	2-16/ μ	S, Sol	Spec	Mosby	JACS	74 (1952)	2564
$C_{13}H_{14}ClNO$	β -Isobutoxy- β -p-chlorophenylecrynitrile	-	S	Band freq	Chase	JCS -	(1953)	3518
$C_{13}H_{14}ClNO_3$	2-(2'-Oxocyclohexyl)-methyl-6-chloronicotinic acid	-	Sol	Band freq, I	Ramirez	JACS	77 (1955)	1035

$C_{13}H_{14}NO_2^2$	Benzyl hydrogen anilino phosphonate	-	-	Group freq	Bellamy	JCS	(1952)	1701
$C_{13}H_{14}N_2$	2-Phenyl-3-isopropenyl-5-methylpyrazole	670-3800	Sol	Spec, Struct	Charette	SA	15 (1959)	70
$C_{13}H_{14}N_2O$	Harmaline	-	Sol	Band freq	Marion	JACS	73 (1951)	305
$C_{13}H_{14}N_2O$	α -(2-Phenylethylamino)-pyridine-N-oxide	800-3000	Sol	Substitution effect	Katritzky	JCS	- (1958)	2195
$C_{13}H_{14}N_2O$	Spiro-(cyclopentane-1,3'-pseudoindole)-2'-carboxamide	-	-	Group freq	Witkop	JACS	75 (1953)	2572
$C_{13}H_{14}N_2O_3$	Anhydrodethiogliotoxin	-	-	Group study	Johnson	JACS	75 (1953)	2103
$C_{13}H_{14}N_2O_3$	Mebraral	2-16 μ 2.5-16 μ	Sol S	Spec, Table Spec Ident	Umberger Levi Cleverley	AC AC ANA	24 (1952) 28 (1956) 85 (1960)	1309 1591 582
$C_{13}H_{14}N_2O_3$	4-N-Propylamido-7-methylisatin	1500-3500	S	Freq assign, Struct	Sadler	JCS	- (1959)	667
$C_{13}H_{14}N_2O_4$	1-Acetyl-2-ethylcarboxy-glyoxal monophenyl-hydrazone	650-4000	Sol	Struct	Tanner	SA	15 (1959)	20
$C_{13}H_{14}N_2O_4S_2$	Gliotoxin	-	-	Group study	Johnson	JACS	75 (1953)	2103
$C_{13}H_{14}N_2O_4$	Norcarnphor-2,4-dinitro-phenylhydrazone	4.2-14.2 μ	-	Table, I	Kwart	JACS	76 (1954)	4072
$C_{13}H_{14}N_2O_5S_3$	2-Thio-3-O-nitrophenyl-hydantoin (derived from 1-cystine)	600-4000	S	Spec, Ident	Epp	AC	29 (1957)	1283
$C_{13}H_{14}N_2O_6$	O-Azidoacetyl-N-carbo-benzoxy-DL-serine	-	-	Band study	Nicolaides	JACS	76 (1954)	2887

$C_{13}H_{14}N_4O_6$	O-Azidoacetyl-N-carbo- benzoxy-L-serine	-	-	Band study	Nicolides	JACS 76 (1954) 2887
$C_{13}H_{14}N_4O_8$	6-Keto-1-azabicyclo [3.2.1]octane picrate	-	S	Band freq	Leonard	JACS 75 (1953) 6249
$C_{13}H_{14}O$	2-Benzylidencyclo- hexanone	-	S	Band freq	Dreiding	JACS 76 (1954) 3965
$C_{13}H_{14}O$	cis-1,2,3,4,4a,9a- Hexahydro-9-keto- fluorene	2-12 μ	-	Spec	Gutsche	JACS 73 (1951) 786
$C_{13}H_{14}O$	trans-6-Oxo-4,5-benzhy- drindane	-	-	Group freq	Amiel	JACS 76 (1954) 3625
$C_{13}H_{14}O$	2-Phenylcyclohept-2- enone	-	-	Group freq	Ginsburg	JACS 76 (1954) 3628
$C_{13}H_{14}O$	3-Phenyl-4,5-dimethyl-2- cyclopenten-1-one	-	S, Sol	Band study	Yates	JACS 80 (1958) 5896
$C_{13}H_{14}O$	Styryl cyclobutyl ketone	1600-1800	Sol	Group freq	Fuson	JACS 76 (1954) 2526
$C_{13}H_{14}OSi$	Phenyl-p-anisylsilane	2-16 μ	Sol	Freq	Kriseley	SA 15 (1959) 651
$C_{13}H_{14}O_2$	2-Benzoylcyclohexanone	5-7 μ	Sol	Spec, Taut	Campbell	JACS 82 (1960) 5426
$C_{13}H_{14}O_2$	α -(4-keto-2-methylcyclo- pent-2-enyl)benzyl alcohol	-	S	Group freq	Acheson	JCS - (1952) 3415
$C_{13}H_{14}O_2$	3-Methyl-1,8-bis-(hydroxy- methyl)naphthalene	-	-	Ident	Boekelheide	JOC 19 (1954) 575
$C_{13}H_{14}O_2$	4-Phenyl-1-carbethoxy-1,3- butadiene	1200-1800	Sol	Spec, Freq	Lacey	JCS - (1960) 3153
$C_{13}H_{14}O_3$	β -Carboxy- ϵ -phenylcap- -	-	Sol	Band freq	Walker	JACS 76 (1954) 6205

$C_{13}H_{14}O_3$		Sol	Freq	Farmer	JCS	(1956)	3600
$C_{13}H_{14}O_3$	1',4'-Dimethoxybenzocycloheptenone	-					
$C_{13}H_{14}O_3$	6,7-Dimethoxy-3-methyl-1-naphthol	Sol	Ident, Band study	Edwards	JACS	76 (1954)	6188
$C_{13}H_{14}O_3$	4-Ethoxy-6-phenyl-5,6-dihydro-2-pyrone	-	Struct	Reid	JACS	76 (1954)	938
$C_{13}H_{14}O_3$	Ethyl 1-oxotetralin-2-carboxylate	Sol	Group study	Bellamy	JCS	- (1954)	4487
$C_{13}H_{14}O_3$	α -Hydroxycyclohexanone benzoate	-	Ident	Stevens	JACS	76 (1954)	715
$C_{13}H_{14}O_3$	2-(3,4-Methylenedioxyphenyl)cyclohexanone	700-3000 Sol	Group freq	Briggs	AC	29 (1957)	904
$C_{13}H_{14}O_3$	trans-3-Oxo-2-phenylcyclopentaneacetic acid	-	Group freq	Amiel	JACS	76 (1954)	3625
$C_{13}H_{14}O_4$	1',4'-Dimethoxy-1,2-benzocycloheptene-3,7-dione	-	Band freq	Sorrie	JCS	- (1955)	2233
$C_{13}H_{14}O_4$	1'-Hydroxy-2',3'-dimethoxybenzocycloheptene	Sol	H bond	Farmer	JCS	- (1956)	3600
$C_{13}H_{14}O_4$	Methyl 3,4-dihydro-3,3-dimethylisocoumarin-4-carboxylate	-	Group freq, Struct	Leowenthal	JCS	- (1952)	4799
$C_{13}H_{14}O_4$	α -Methyl-3,4-methylene-	2-15.5 μ Sol	Spec, Group freq, Struct	Schrecker	JACS	76 (1954)	4896
		700-1000 Sol	Group freq	Briggs	AC	29 (1957)	904

$C_{13}H_{14}O_5$	Ethyl gladiolate	-	S	Group freq	Grove	JCS - (1952)	3345
$C_{13}H_{14}O_5$	5,6,7,8-Tetrahydro-2-hydroxy-3-carboxy-1-naphthaleneacetic acid	-	-	Band freq	Tarbell	JACS 76 (1954)	5761
$C_{13}H_{14}O_5$	4,5,6-Trimethoxyindene-2-carboxylic acid	-	Sol	Group freq	Koo	JACS 75 (1953)	1889
$C_{13}H_{14}O_6$	Methyl phthalyl ethyl glycolate	2-15 μ	L	Spec	Kendall	PAS 7 (1953)	179
$C_{13}H_{14}O_7$	4-(2,6-Dicarboxy-3-hydroxyphenyl)pentanoic acid	-	S	Band study	Pasternack	JACS 74 (1952)	1928
$C_{13}H_{14}O_7$	Trimethyl 3-methoxybenzene -1,2,4-tricarboxylate	-	-	Ident	Gardner	JCS - (1954)	1817
$C_{13}H_{14}O_7$	Trimethyl 4-methoxybenzene -1,2,3-tricarboxylate	-	-	Ident	Gardner	JCS - (1954)	1817
$C_{13}H_{14}O_7$	Trimethyl 5-methoxybenzene -1,2,3-tricarboxylate	-	-	Ident	Gardner	JCS - (1954)	1817
$C_{13}H_{14}O_7$	Trimethyl 5-methoxybenzene -1,2,4-tricarboxylate	-	-	Ident	Gardner	JCS - (1954)	1817
$C_{13}H_{14}O_7$	Trimethyl 6-methoxybenzene -1,2,4-tricarboxylate	-	-	Ident	Gardner	JCS - (1954)	1817
$C_{13}H_{14}Si$	Benzylphenylsilane	2-16 μ	Sol	Freq	Kniseley	SA 15 (1959)	651
$C_{13}H_{14}Si$	Methyldiphenylsilane	2-16 μ	Sol	Freq	Kniseley	SA 15 (1959)	651
$C_{13}H_{14}Si$	Phenyl-o-tolylsilane	2-16 μ	Sol	Freq	Smith	SA 15 (1959)	412
$C_{13}H_{15}BrO$	2-(p-Bromobenzyl)cyclo-	5-6.5 μ	Sol	H bond	Kniseley	SA 15 (1959)	651
					Hutric	JACS 78 (1956)	1147

C ₁₃ H ₁₅ BrO ₂	-	-	Ident	Zimmerman	JACS 76 (1954)	2285
2-Bromo-2-phenylecyclohexanecarboxylic acid	-	-				
C ₁₃ H ₁₅ BrO ₂	2-6.5 μ	S, Sol	H bond	Huitric	JACS 78 (1956)	1147
2-(α-Hydroxy-p-bromobenzyl)cyclohexanone	-	Sol	Group freq	Edwards	JACS 76 (1954)	6188
C ₁₃ H ₁₅ BrO ₃	-	-				
2-Bromo-3,4-dihydro-6,7-dimethoxy-3-methyl-1(2)naphthalenone	-	Sol	Ident	Wagner	JACS 75 (1953)	4684
C ₁₃ H ₁₅ BrO ₄	-	-	Ident	Ham	JACS 76 (1954)	6066
p-Bromophenacyl α-methyl-α-hydroxybutyrate	5.5-6.5 μ	Sol	H bond	Huitric	JACS 78 (1956)	1147
C ₁₃ H ₁₅ ClO	2-6.5 μ	S, Sol	H bond	Huitric	JACS 78 (1956)	1147
2-(p-chlorobenzyl)cyclohexanone	-	-	Group freq	Butler	JACS 77 (1955)	482
C ₁₃ H ₁₅ ClO ₂	2200-8000	Sol	Absorption study	Buckley	JCS - (1957)	4891
Vinylxyethyl 2-allyl-4-chlorophenyl ether	2200-8000	Sol	Absorption study	Buckley	JCS - (1957)	4891
C ₁₃ H ₁₅ Cl ₂ NO ₃	2-6.5 μ	S, Sol	H bond	Huitric	JACS 78 (1956)	1147
2,5-Dichloro-6,(2'-diethyl-aminovinyl)-3-methoxy-p-benzoquinone	2-6.5 μ	S, Sol	H bond	Huitric	JACS 78 (1956)	1147
C ₁₃ H ₁₅ Cl ₂ IO ₂	2-12 μ	Sol	Spec	Witkop	JACS 73 (1951)	1558
3,5-Dichloro-6,(2'-diethyl-aminovinyl)-2-methoxy-p-benzoquinone	2-12 μ	Sol	Spec	Witkop	JACS 73 (1951)	1558
C ₁₃ H ₁₅ N	2-12 μ	Sol	Spec	Witkop	JACS 73 (1951)	1558
11-Methyltetrahydrocarbazolenine	2-12 μ	Sol	Spec	Witkop	JACS 73 (1951)	1558
C ₁₃ H ₁₅ N	2-12 μ	Sol	Spec	Witkop	JACS 73 (1951)	1558
Sprio-(cyclopentane-1,3'-pseudo-2'-methylindole)	2-12 μ	Sol	Spec	Witkop	JACS 73 (1951)	1558

$C_{13}H_{15}N$	2,4,5,8-Tetramethyl-quinoline	2-15 μ	Sol	Bending freq, Spec	Karr	JACS 81 (1959)	152
$C_{13}H_{15}N$	2,4,7,8-Tetramethyl-quinoline	2-15 μ	Sol	Spec, Bending freq	Karr	JACS 81 (1959)	152
$C_{13}H_{15}N \cdot HCl$	Spiro-(cyclopentane-1,3'-pseudo-2'-methylindole) hydrochloride	2-12 μ	Sol	Spec	Witkop	JACS 73 (1951)	1558
$C_{13}H_{15}NO$	Benzo [c]-7-keto-1-azabicyclo [4.4.0] decane	-	Sol	Group freq	Leonard	JACS 76 (1954)	3193
$C_{13}H_{15}NO$	1-Benzoyl-2,5-dimethyl- Δ^3 -pyrrolone	2-11 μ	Sol	Spec, Band freq	Evans	JACS 73 (1951)	5230
$C_{13}H_{15}NO$	1-Dimethylaminomethyl-2-naphthol	3 μ	Sol	H bond, Freq	Flett	SA 10 (1958)	21
$C_{13}H_{15}NO$	1,4-Dimethyl-3-ethyl-carbostyri1	2-16 μ	Sol	Spec, Freq	Cook	JOC 22 (1957)	211
$C_{13}H_{15}NO$	Spiro-(cyclopentane-1,3'-pseudo-1'-methyloxindole)	-	-	Ident	Witkop	JACS 75 (1953)	2572
$C_{13}H_{15}NO$	1,2,3,4-Tetrahydro-6-methoxy carbazole	-	-	Group freq, Struct	Milne	JCS - (1952)	2789
$C_{13}H_{15}NO_2 \cdot HCl$	3-Dimethylaminomethyl-6-methylchromone hydrochloride	-	-	Spec	Wiley	JACS 74 (1952)	4326
$C_{13}H_{15}NO_2S$	1-Cyano-2-phenylsulfonyl-cyclohexane	650-3800	S	Spec	Ross	JACS 73 (1951)	129
$C_{13}H_{15}NO_3$	9-Carboxy-1,2,3,4,4a,10a-hexahydrobenzo [b]-pyrrocolin-6 (10H)-one	-	S	Band freq, I	Ramirez	JACS 77 (1955)	3337

$C_{13}H_{15}NO_3$		L, Sol	Spec, Band freq	Smith	JACS	73 (1951)	3837
$C_{13}H_{15}NO_3$	Cyclopropyl-3-phenyl-2-nitro-1-cyclopropylcarbinol	-	-				
$C_{13}H_{15}NO_3$	4-Hydroxy-2,3-dimethyl-4-phenylcarbamoylbutanoic lactone	S	695-3311 Group freq, Table	Ames	JCS	- (1954)	375
$C_{13}H_{15}NO_3 \cdot HCl$	3-Dimethylaminomethyl-6-methoxychromone hydrochloride	-	Spec	Wiley	JACS	74 (1952)	4326
$C_{13}H_{15}NO_3 \cdot HCl$	3-Dimethylaminomethyl-7-methoxychromone hydrochloride	-	Spec	Wiley	JACS	74 (1952)	4326
$C_{13}H_{15}NO_4$	1-Acetyl-3-methyl-5,6-dimethoxyoxindole	Sol	Group freq	Walker	JACS	77 (1955)	3844
$C_{13}H_{15}NO_4$	6-(4'-Carboxy)butyl-2-hydroxy-5-oxo-6,7-dihydro-1,5H-pyridine	S	Band freq	Ramirez	JACS	77 (1955)	1035
$C_{13}H_{15}NO_4$	N,N-Diacetylglycine benzyl ester	Sol	2-8 μ Spec, Group freq	Sheehan	JACS	74 (1952)	4555
$C_{13}H_{15}NO_4$	4,7-Dimethoxy-3-(2'-hydroxyethyl)-2-quinolone	S, Sol	1450-4000 Spec, Freq	Price	AJC	12 (1959)	589
$C_{13}H_{15}NO_6$	4-(3',4'-Methylenedioxyphenyl)-5-nitro-1,2-cyclohexanediol	S	1500 Group freq	Briggs	AC	29 (1957)	904
$C_{13}H_{15}NO_6$	2,5,6-Triacetoxy-3,4-dimethylpyridine	L	713-1770 Table, Band freq	Ames	JCS	- (1953)	3008
$C_{13}H_{15}N$	1-Cyano-2-phenylme reapt o-cyclohexane	S	650-3800 Spec	Ross	JACS	73 (1951)	129

$C_{13}H_{15}O_5$	Apocynol diacetate	4000-600	L	Spec, Freq	Herzert	JOC	25 (1960)	405
$C_{13}H_{16}F_3N_2O_3P$	Dianilinium trifluoromethyl phosphonate	-	-	Group freq	Emeleus	JCS	- (1955)	563
$C_{13}H_{16}N_2OS$	5-Isobutyl-3-phenyl-2-thiohydantoin	2.5-15 μ	L	Spec, Ident	Ramachandran	AC	27 (1955)	1734
$C_{13}H_{16}N_2OS$	5-(s-Butyl)-3-phenyl-2-thiohydantoin	2.5-15 μ	S	Spec, Ident	Ramachandran	AC	27 (1955)	1734
$C_{13}H_{16}N_2O_2$	2-Cyano-2-methyl-4-nitro-4-phenylpentane	-	-	Group & Band freq, I	Gingras	JCS	- (1954)	3508
$C_{13}H_{16}N_2O_2S$	Kemithal	-	-	Ident	Cleverley	ANA	85 (1960)	582
$C_{13}H_{16}N_2O_3$	Deoxydethioglibotoxin	-	-	Group study	Johnson	JACS	75 (1953)	2103
$C_{13}H_{16}N_2O_4$	Dethioglibotoxin	-	-	Group study	Johnson	JACS	75 (1953)	2103
$C_{13}H_{16}N_2O_4$	2-Heptenal-2,4-dinitro-phenylhydrazones	2-16 μ	Sol	Spec	Schepartz	JAOC	27 (1950)	367
$C_{13}H_{16}N_2O_5$	2,6-Diacetoxy-5-acetamido-3,4-dimethylpyridine	717-3268	S	Table, Band freq	Ames	JCS	- (1953)	3008
$C_{13}H_{16}N_2O_6 \cdot HCl$	O-Glycyl-N-carbobenzoxy-DL-serine hydrochloride	-	S	Group freq	Moore	JACS	76 (1954)	2884
$C_{13}H_{16}N_2S_2$	Santocore	2.5-14 μ	S	Spec	Sheppard	TFS	41 (1945)	261
$C_{13}H_{16}N_4O_3S$	2-Thio-3-o-nitrophenyl-5-aminobutylhydantoin	4000-600	S	Spec, Ident	Epp	AC	29 (1957)	1283
$C_{13}H_{16}N_4O_5$	Syn-2-Methoxycyclohexanone-2,4-dinitrophenylhydrazone	2-16 μ	Sol	Spec, Group freq	Ramirez	JACS	76 (1954)	1037

$C_{13}H_{16}N_2O_8$	3-Acetyl piperidine picrate	-	S	Ident	Leonard	JACS 75 (1953) 6249
$C_{13}H_{16}N_2O_4$	6-Dimethylamino-9-(3'-amino-3'-deoxy- β -D-ribofuranosyl)purine-2',3'-carbonate	-	S	Group freq	Baker	JACS 77 (1955) 15
$C_{13}H_{16}O$	Mesityl cyclopropyl ketone	-	-	Assign	Fuson	JACS 70 (1948) 3255
$C_{13}H_{16}O$	Mesityl propenyl ketone	-	-	Assign	Fuson	JACS 70 (1948) 3255
$C_{13}H_{16}O$	2-Phenylcyclohexanone	400-2000	-	Spec	Gutsche	JACS 71 (1949) 3513
$C_{13}H_{16}O$	3-Phenylcyclohexanone	400-2000	-	Spec	Gutsche	JACS 71 (1949) 3513
$C_{13}H_{16}O$	Phenyl cyclohexyl ketone	1600-1800	Sol	Group freq	Fuson	JACS 76 (1954) 2526
$C_{13}H_{16}O$	Styryl isobutyl ketone	1600-1800	Sol	Group freq	Fuson	JACS 76 (1954) 2526
$C_{13}H_{16}O_2$	p-Anisyl cyclopentyl ketone	-	Sol	Ident	Curtin	JACS 77 (1955) 1105
$C_{13}H_{16}O_2$	Butyl trans-cinnamate	2-15 μ	L	Assign, Generalization	Walton	JACS 79 (1957) 3985
$C_{13}H_{16}O_2$	s-Butyl β -phenyl acrylate	800-1500	Sol	Group assign	Katritzky	SA 16 (1960) 954
$C_{13}H_{16}O_2$	β -Cyclohexyltropolone	2-16 μ	Sol	Spec	Katritzky	SA 16 (1960) 964
$C_{13}H_{16}O_2$	γ -Cyclohexyltropolone	2-16 μ	Sol	Spec	Doering	JACS 75 (1953) 297
$C_{13}H_{16}O$	o-Ethyl phenyl 3-tetrahydro-furanyl ketone	-	-	Group freq	Doering	JACS 75 (1953) 297
$C_{13}H_{16}O$					Godfrey	JACS 77 (1955) 3342

$C_{13}H_{16}O_2$	2-(α -Hydroxybenzyl)cyclohexanone	-	-	Group freq	Zimmerman	JACS 76 (1954) 2285
$C_{13}H_{16}O_2$	α -Hydroxycyclohexyl phenyl ketone	2-16 μ	Sol	Spec	Stevens	JACS 74 (1952) 5352
$C_{13}H_{16}O_2$	2-p-Methoxyphenylcyclohexanone	-	-	Ident, Anal	Curtin	JACS 77 (1955) 1105
$C_{13}H_{16}O_2$	trans-2-Phenylcyclopentanecarboxylic acid	-	L	Group freq	Amiel	JACS 76 (1954) 3625
$C_{13}H_{16}O_2$	2-Propionyl-5,6,7,8-tetrahydro-1-naphthol	800-2900	Sol	Spec, Freq	Lacey	JOS - (1960) 3153
$C_{13}H_{16}O_2$	Vinylxyethyl 2-allylphenyl ether	-	-	Group freq	Butler	JACS 77 (1955) 482
$C_{13}H_{16}O_3$	trans-1-Acetoxy-2-keto-10-methyl- $\Delta^{3,6}$ -hexahydronaphthalene	2-12 μ	Sol	Spec	Woodward	JACS 74 (1952) 4223
$C_{13}H_{16}O_3$	δ -Benzoyl- α -methylvaleric acid	-	-	Group freq	Zimmerman	JACS 76 (1954) 2285
$C_{13}H_{16}O_3$	3-Carbomethoxy-4-methyl-ar-2-tetralol	3.29-11.59 μ	Sol	Table, Freq, I	Dreiding	JOC 19 (1954) 241
$C_{13}H_{16}O_3$	3,4-Dihydro-6,7-dimethoxy-3-methyl-1(2)naphthalenone	-	Sol	Group freq	Edwards	JACS 76 (1954) 6188
$C_{13}H_{16}O_3$	3,3-Dimethyl-2-ketobutyl benzoate	-	L	Group freq	Leonard	JACS 77 (1955) 3272
$C_{13}H_{16}O_3$	3-Ethoxy-5-phenyl-2-pentenoic acid	-	S, Sol	Ident, Struot	Reid	JACS 76 (1954) 938

$C_{13}H_{16}O_3$	5.72-11.71	Sol	Table, Freq, I	Dreiding	JOC	19 (1954)	241
2-Keto-3-carbomethoxy-10-methyl- $\Delta^{1:9,3:4}$ -hexahydronaphthalene	700-1500	Sol	Group freq	Briggs	AC	29 (1957)	904
2-(3',4'-Methylenedioxy-phenyl)cyclohexanol	875-3020	Sol	Table, Group freq, I	Gunstone	JCS	- (1955)	1130
1,2,3,4,5,6,7,10-Octahydro-1-hydroxy-10-methyl-7-oxo-2-naphthyl-acetic acid lactone	5.5-13 μ	S	Spec, Struct	Ungnade	JACS	72 (1950)	3818
Pyrotetmulin	-	-	Band freq	Smith	JOC	16 (1951)	972
2-Styryl-4-methoxy-methyl-1,3-dioxolane	-	Sol	Group freq	Walker	JACS	76 (1954)	6205
β -Carboxy- ϵ -phenyl-caproic acid	2-15 μ	L	Spec, Freq	Abramovitch	CJC	36 (1958)	151
Diethyl phenylmalonate	-	-	Struct	Gardner	JOC	19 (1954)	213
4-Hydroxy-2,3-dimethoxy-benzosuberone	-	Sol	H bond, Ring size effect	Farmer	JCS	- (1956)	3600
8-Hydroxy-5,7-dimethoxy-2-methyltetralone	-	-	Band study	Fuson	JACS	74 (1952)	1631
Mesitylsuccinic acid	-	S	Table, Group freq	Friedmann	JCS	- (1954)	3687
5-Carboxy-4-hydroxy-5-phenyl-1,3-dioxane	-	Sol	Group freq	Koo	JACS	75 (1953)	1889
4,5,6-Trimethoxyindane-2-carboxylic acid	-	Sol					

$C_{13}H_{16}O_6S$	4-Diacetoxymethylphenyl ethyl sulfone	-	S, Sol	Substitution effect	Momose	CPBT	6 (1958)	412				
$C_{13}H_{16}O_7$	D-Talopyranose-1-benzoate	2-15 μ	S	Spec, Config	Isbell	JRNB	57 (1956)	179				
$C_{13}H_{17}BrO$	α -Hydroxy-p-bromobenzylcyclohexane	2.5-3.5 μ	S, Sol	H bond	Huitric	JACS	78 (1956)	1147				
$C_{13}H_{17}BrOS$	Hexylthio p-bromobenzoate	2.5-16 μ	Sol	Struct, Freq	Nyquist	SA	15 (1959)	514				
$C_{13}H_{17}ClO$	α -Hydroxy-p-chlorobenzylcyclohexane	2-3.5 μ	S, Sol	H bond	Huitric	JACS	78 (1956)	1147				
$C_{13}H_{17}ClOS$	Hexylthio m-chlorobenzoate	2.5-16 μ	Sol	Struct, Freq	Nyquist	SA	15 (1959)	514				
$C_{13}H_{17}FOS$	Hexylthio o-fluorobenzoate	2.5-16 μ	Sol	Struct, Freq	Nyquist	SA	15 (1959)	514				
$C_{13}H_{17}IN_2O$	3-Trimethylammonium-acetylidole iodide	700-4000	S	Spec, Freq	Tanner	SA	9 (1957)	282				
$C_{13}H_{17}IO$	α -Hydroxy-p-iodobenzylcyclohexane	2-3.5 μ	S, Sol	H bond	Huitric	JACS	78 (1956)	1147				
$C_{13}H_{17}IOS$	Hexylthio m-iodobenzoate	2.5-16 μ	Sol	Struct, Freq	Nyquist	SA	15 (1959)	514				
$C_{13}H_{17}IOS$	Hexylthio o-iodobenzoate	2.5-16 μ	Sol	Struct, Freq	Nyquist	SA	15 (1959)	514				
$C_{13}H_{17}N$	Benzo[c]-1-azabicyclo[5,3,0]decane	-	L	Ident	Leonard	JACS	76 (1954)	3193				
$C_{13}H_{17}N$	2-Isopropyl-3,3-dimethylindolenine	2-12 μ	Sol	Spec, Struct, Band freq	Witkop	JACS	73 (1951)	2188				
$C_{13}H_{17}NO$	5-Amino-4-(3-methoxyphenyl)cyclohexene	2-15 μ	S	Ident	Wildman	JACS	76 (1954)	152				
$C_{13}H_{17}NO$	N-Cyclohexylbenzamide	-	Sol	Stretch freq	Bourne	JCS	- (1952)	4014				

C ₁₃ H ₁₇ NO	Cyclopropyl-3-phenyl-2-amino-1-cyclopropyl-carbinol	-	-	Smith	JACS 73 (1951) 3837
C ₁₃ H ₁₇ NO	1-Ethyl-2-phenyl-3-piperidone	-	-	Leonard	JACS 75 (1953) 3727
C ₁₃ H ₁₇ NO	Piperidinomethyl phenyl ketone	700-4000	Sol	AdeIfang	JACS 82 (1960) 4241
C ₁₃ H ₁₇ NO	Spiro-(cyclopentane-1,3'-N-methyl-2'-hydroxy-indole	-	-	Witkop	JACS 75 (1953) 2572
C ₁₃ H ₁₇ NO ₂	5-Benzamidohexanone-2	2-11 μ	Sol	Evans	JACS 73 (1951) 5230
C ₁₃ H ₁₇ NO ₂ S	β -Benzylsulfonyl- α -isopropylpropionitrile	-	-	Ross	JACS 73 (1951) 540
C ₁₃ H ₁₇ NO ₅	Ethyl 2-carbethoxy-3,5-dimethylpyrrolidylglyoxylate	-	S, Sol	Cookson	JCS - (1953) 2789
C ₁₃ H ₁₇ NO ₅	4-(3-Methoxyphenyl)-5-nitro-1,2-cyclohexanediol	2-15 μ	S	Wildman	JACS 76 (1954) 152
C ₁₃ H ₁₇ NO ₆	2,4-Dicarbethoxy-5-carbomethoxy-3-methylpyrrole	500-4000	Sol	Eisner	JCS - (1958) 971
C ₁₃ H ₁₇ NS	β -Benzylmercapto- α -isopropylpropionitrile	650-3600	L	Ross	JACS 73 (1951) 540
C ₁₃ H ₁₇ N ₃ O ₂	5-Methoxy-2,3-dimethylindanone semicarbazone	-	S	Conover	JACS 75 (1953) 4017
C ₁₃ H ₁₇ N ₅	1-Cyclohexyl-5-phenylaminotetrazole	6-14 μ	S	Finnegan	JACS 77 (1955) 4420

$C_{13}H_{17}N_5$	1-Phenyl-5-cyclohexyl-aminotetrazole	6-14 μ	S	Spec	Finnegan	JACS 77 (1955)	4420
$C_{13}H_{17}N_5OS \cdot HCl$	5-(3-Guanidopropyl)-3-phenyl-2-thiohydantoin hydrochloride	2.5-15 μ	S	Spec, Ident	Ramachandran	AC 27 (1955)	1734
$C_{13}H_{17}N_5O_8$	Di-isopropylisonitramine	600-1600	L, S, Sol	Freq	George	CJC 37 (1959)	679
$C_{13}H_{17}N_5O_8$	Di-n-propylisonitramine	600-1600	L, S, Sol	Freq	George	CJC 37 (1959)	679
$C_{13}H_{18}$	1-Methyl-1-phenyl-cyclohexane	7.5-14.5 μ	L	Spec, Anal	Ipatieff	JACS 72 (1950)	2772
$C_{13}H_{18}NO_4$	4-Amino-5-(3,4'-methylene-dioxyphenyl)-1,2-cyclohexanediol	700-1500	S	Group freq	Briggs	AC 29 (1957)	904
$C_{13}H_{18}N_2O$	N-(2-Hydroxycyclohexyl)benzamide	780-3350	S	Group freq	McCasland	JACS 73 (1951)	3744
$C_{13}H_{18}N_2O_2$	N-Acetyl-N'-propionyl-N,N'-dimethyl-o-phenylenediamine	2-15 μ	Sol	Absorption freq, Struct anal	Smith	JACS 71 (1949)	1082
$C_{13}H_{18}N_2O_2$	N^{ϵ} -Benzylidene-L-lysine	-	S	Group freq, I	Witkop	JACS 76 (1954)	5589
$C_{13}H_{18}N_2O_2S \cdot 2HBr$	1-(2-Pyridylthio)-4-morpholino-2-butanone dihydrobromide	-	Sol	Group freq	Djerassi	JACS 76 (1954)	4470
$C_{13}H_{18}N_2O_3$	N^{ϵ} -Salicylidene-L-lysine	-	S	Group freq, I	Witkop	JACS 76 (1954)	5589
$C_{13}H_{18}N_2O_4$	Diethyl bis-(2-cyano-	2-15 μ	S	Spec, Freq	Abramovitch	CJC 36 (1958)	151

$C_{13}H_{18}N_2O_4 \cdot HCl$	2-(p-Nitrophenylcarboxy)- triethylamine hydro- chloride α	2-8 μ	Sol	Spec	Nakanishi	BCSJ	30 (1957)	403
$C_{13}H_{18}N_2O_4$	N ^{α} -Benzylidene-L-arginine	-	S	Group freq, I	Witkop	JACS	76 (1954)	5589
$C_{13}H_{18}N_2O_4$	Di-n-propyl ketone-2,4- dinitrophenylhydrazone	6-15 μ 2-15 μ	S, Sol S	Spec, Table Spec, Ident	Ross Jones	AC AC	25 (1953) 28 (1956)	1288 191
$C_{13}H_{18}N_2O_4$	Methyl n-amy1 ketone-2,4- dinitrophenylhydrazone	6-15 μ	S	Spec, Table	Ross	AC	25 (1953)	1288
$C_{13}H_{18}N_2O_7$	2,6-Dimethylpiperidine picrate	2-15 μ 2-15 μ	- -	Ident Ident	Overberger Overberger	JACS JACS	77 (1955) 77 (1955)	4097 4100
$C_{13}H_{18}O$	Butyl p-xylyl ketone	1600-1800	Sol	Group freq	Fuson	JACS	76 (1954)	2526
$C_{13}H_{18}O$	2-Cyclohexyl-4-methyl- phenol	650-1400	Sol	Spec	Shrewsbury	SA	16 (1960)	1294
$C_{13}H_{18}O$	2-Cyclohexyl-5-methyl- phenol	650-1400	Sol	Spec	Shrewsbury	SA	16 (1960)	1294
$C_{13}H_{18}O$	3-Cyclohexyl-4-methyl- phenol	650-1400	Sol	Spec	Shrewsbury	SA	16 (1960)	1294
$C_{13}H_{18}O$	Dehydro- β -ionone	-	L	Band & Group freq, Table	Farrar	JCS	- (1952)	2657
$C_{13}H_{18}O$	γ , γ -Dimethylvalero- phenone	-	-	Ident	Wiberg	JACS	77 (1955)	1159
$C_{13}H_{18}O$	Hexyl phenyl ketone	1600-1800	Sol	Group freq	Fuson	JACS	76 (1954)	2526
$C_{13}H_{18}O$	6-Methoxy-1,1-dimethyl- tetralin	1000-3000	Sol	Spec	Armour	HCA	42 (1959)	2233
$C_{13}H_{18}O$	2-Methyl-4-cyclohexyl- phenol	650-1400	Sol	Spec	Shrewsbury	SA	16 (1960)	1294

$C_{13}H_{18}O$	2-Methyl-6-cyclohexyl-phenol	650-1400	Sol	Spec	Shrewsbury	SA	16 (1960)	1294
$C_{13}H_{18}O$	4-Methyl-4-phenyl-3-hexanone	2-14.5 μ	L	Spec, Anal, Ext coeff	Cram	JACS	74 (1952)	5839
$C_{13}H_{18}O$	Phenylcyclohexylmethanol	665-5000	S, L	Group freq	Zeiss	JACS	75 (1953)	897
$C_{13}H_{18}O$	α -(1-Phenylcyclopentyl)ethanol	-	-	Band freq	Smith	JACS	76 (1954)	4564
$C_{13}H_{18}O$	1-(α -Phenylethyl)cyclopentanol	-	-	Band freq	Smith	JACS	76 (1954)	4564
$C_{13}H_{18}O$	1-Phenyl-2-methylcyclohexanol	-	-	Band freq	Smith	JACS	76 (1954)	4564
$C_{13}H_{18}O$	1-Phenyl-2-methyl-2-ethyl-1-butanone	2-14.5 μ	L	Spec, Anal, Ext coeff	Cram	JACS	74 (1952)	5839
$C_{13}H_{18}O$	1,2,2,3-Tetramethyl-1-phenyltrimethylene oxide	3.4-14.3 μ	-	Table	Buchi	JACS	76 (1954)	4327
$C_{13}H_{18}O$	<i>o</i> -Tolyl isanyl ketone	-	-	Group freq	Plockard	JACS	76 (1954)	5169
$C_{13}H_{18}OS$	Hexylthio benzoate	2.5-16 μ	Sol	Struct, Freq	Nyquist	SA	15 (1959)	514
$C_{13}H_{18}O_2$	Ethyl 2-methyl-5-iso-propylbenzoate	2-13 μ	-	Spec	Adams	JACS	70 (1948)	3937
$C_{13}H_{18}O_2$	Ethyl 3-methyl-6-iso-propylbenzoate	2-13 μ	-	Spec	Adams	JACS	70 (1948)	3937
$C_{13}H_{18}O_2$	Isobutyl β -phenylpropionate	800-1500	Sol	Group assign	Katritzky	SA	16 (1960)	954
$C_{13}H_{18}O_2$	3-Methyl-5-hydroxy-5-phenylhexanal	-	-	Assign	Katritzky	SA	16 (1960)	964
$C_{13}H_{18}O_2$	3-Methyl-5-hydroxy-5-phenylhexanal	-	-	Band study	Smith	JACS	73 (1951)	5273

$C_{13}H_{18}O_3$	trans-1-Acetoxy-2-keto-10-methyl- Δ^3 -octahydro-naphthalene	2-12 μ	Sol	Band freq	Woodward	JACS 74 (1952) 4223
$C_{13}H_{18}O_3$	Norcedrenedicarboxylic anhydride	-	-	Band freq, Ident	Stork Stork	JACS 75 (1953) 3291 JACS 75 (1953) 1072
$C_{13}H_{18}O_3^S$	3,3-Dimethyl-1-p-toluene-sulfonyl-2-butanone	-	L	Group freq	Leonard	JACS 77 (1955) 3272
$C_{13}H_{18}O_4$	4-Ethoxycarbonyl-2,5-dihydro-3-methyl-5-oxo-furan-2-spirocyclohexane	1000-1800	Sol	Spec, Freq	Lacey	JCS - (1960) 3153
$C_{13}H_{18}O_4$	Ethyl trans-5,6,7,8,9,10-hexahydro-2-methylchromone-3-carboxylate	1500-2000	S	Band freq	Kidd	JCS - (1953) 3244
$C_{13}H_{18}O_5$	1-Dihydroumbellulonyl-malonic acid	-	S	Group freq	Eastman	JACS 76 (1954) 4115
$C_{13}H_{18}O_6$	2,3,4-Trimethoxybenzyl ethyl carbonate	868-2925	Sol	Table, Struct, Ident	Gutsche	JACS 76 (1954) 1776
$C_{13}H_{18}O_9$	Tetracetyl- α -L-arabinose	8-15 μ	S	Spec Anal, Band freq, I	Kuhn Whistler	AC 22 (1950) 276 AC 25 (1953) 1463
$C_{13}H_{18}O_9$	1,2,3,4-Tetra-O-acetyl- α ,D-arabopyranose	-	S	Band freq, I	Barker	JCS - (1954) 3468
$C_{13}H_{18}O_9$	Tetracetyl- α ,D-lyxose	2-15 μ	Sol	Anal, Band freq, I	Whistler	AC 25 (1953) 1463
$C_{13}H_{18}O_9$	1,2,3,4-Tetra-O-acetyl- β ,L-xylopyranose	-	S	Band freq, I	Barker	JCS - (1954) 3468
$C_{13}H_{18}O_9$	1,2,3,4-Tetracetyl-D-xylose	-	Sol	Anal, Band freq, I	Whistler	AC 25 (1953) 1463

$C_{13}H_{19}BrO_8$	Methyl 2,3,4-tri-O-acetyl-6-bromo-6-deoxy- β -D-glucopyranoside	-	S	Band freq, I	Barker	JCS - (1954)	3468
$C_{13}H_{19}Cl_3OSi$	Trichlorosilylheptyl pentyl ether	-	-	Inductive effect	Josien	CPR 249 (1959)	826
$C_{13}H_{19}N$	Diethylcinnamylamine	-	-	Ident	Snyder	JACS 76 (1954)	1893
$C_{13}H_{19}N$	N,N-Dimethyl- γ -cyclooctatetraenyl-n-propylamine	2-16 μ	L	Spec	Cope	JACS 75 (1953)	3220
$C_{13}H_{19}N$	o-Tolyl isocamyl ketimine	-	-	Group freq	Pickard	JACS 76 (1954)	5169
$C_{13}H_{19}NO$	N-(t-Amyl)phenylacetamide	1500-3600 3 μ	S,Sol Sol	Spec, Assign Band study	Richards Russell	JCS - (1947) SA 8 (1956)	1248 138
$C_{13}H_{19}NO$	3,3-Dimethyl-1-(N-methyl-anilino)-2-butanone	-	L,S	Group freq	Leonard	JACS 77 (1955)	3272
$C_{13}H_{19}NO_2$	Alkaloid of Dioscorea hispida, Dennstedt	-	S,L	Stretch freq, Struct	Pinder	JCS - (1952)	2236
$C_{13}H_{19}NO_3$	5-Amino-4(3-methoxyphenyl)-1,2-cyclohexanediol	2-15 μ	S	Substitution effect	Wildman	JACS 76 (1954)	152
$C_{13}H_{19}NO_4$	3,5-Dicarbethoxy-2,6-dimethyl-1,4-dihydropyridine	-	S	Band freq	Berson	JACS 77 (1955)	444
$C_{13}H_{19}NO_4$	3,5-Dicarbethoxy-1,2,4-trimethylpyrrole	500-4000	S,Sol	Spec, Freq, Assign	Eisner	JCS - (1958)	971
$C_{13}H_{19}N_3O_3$	N-Acetyl-1-(β , β -Diethoxyethyl)-2-amino-4-cyanopyrrole	2-16 μ	-	Spec	Grob	HCA 37 (1954)	1256
$C_{13}H_{19}N_3O_4 \cdot HCl$	Pyrazine-2,3-dicarboxylic acid, 2-methyl ester, 3- β -diethylaminoethyl ester, hydrochloride	1500-2000	S	Spec, Group freq	Solomons	JACS 75 (1953)	679

$C_{13}H_{19}N_5O_4S$	2-Methylmercapt-6-dimethyl- amino-9- β -D-ribofuranosyl- purine	-	S	Group freq	Kissman	JACS 77 (1955)	18
$C_{13}H_{19}O_4P$	Diethyl 2-benzoylethyl- phosphonate	-	-	Band freq	Myers	JACS 77 (1955) 3101	
$C_{13}H_{20}$	m-t-Butylisopropylbenzene	-	-	Band freq	Hennion	JOC 17 (1952) 1102	
$C_{13}H_{20}$	p-t-Butylisopropylbenzene	-	-	Band freq	Hennion	JOC 17 (1952) 1102	
$C_{13}H_{20}$	1,3-Diisopropyl-5-methyl- benzene	-	Sol	Spec, Assign	McCauley	JACS 76 (1954) 2354	
$C_{13}H_{20}$	1-Methyl-3,5-diisopropyl- benzene	700-1000	S,Sol	Bending freq	Belleamy	JCS - (1955) 2818	
$C_{13}H_{20}$	Tridecadiyne-5,8	2-16 μ	L	Spec, Group freq	Gensler	JACS 77 (1955) 3076	
$C_{13}H_{20}Cl_2O_3$	bis-Chlorocyclohexyl carbonate	-	S	Freq, Struct	Hales	JCS - (1957) 618	
$C_{13}H_{20}IN_3O$	2-(4-Methyl-6-hydroxy-2- pyrimidyl-4-azaspiro [3.5]nonane iodide	-	-	Band study, Struct	Snyder	JACS 76 (1954) 118	
$C_{13}H_{20}N_2$	1-(2-Anilinoethyl) piperidine	3.38-3.60 μ	S	Freq	Wright	JOC 24 (1959) 1362	
$C_{13}H_{20}N_2O$	N-(N'-N'-Diethylacetamido) benzylamine	-	-	Spec	Larriza	GCI 90 (1960) 848	
$C_{13}H_{20}N_2O$	N-(2-Methylaminopropyl) propionanilide	3.38-3.60 μ	S	Freq	Wright	JOC 24 (1959) 1362	
$C_{13}H_{20}N_2O.HCl$	β -(p-Aminobenzoyl) trie- thylamine hydrochloride	2-8 μ	Sol	Spec	Nakanishi	BCSJ 30 (1957) 403	

$C_{13}H_{20}N_2O_5 \cdot 2HBr$	1-(2-Pyridylthio)-4-diethylamino-2-butanone dihydrobromide	-	Sol	Group freq	Djerassi	JACS 76 (1954)	4470
$C_{13}H_{20}O$	2-t-Butyl-4-ethyl-5-methylphenol	650-1400	Sol	Spec	Shrewsbury	SA 16 (1960)	1294
$C_{13}H_{20}O$	2-t-Butyl-4-isopropylphenol	650-1440	Sol	Spec	Shrewsbury	SA 16 (1960)	1294
$C_{13}H_{20}O$	2,5-Dihydro-4-cyclohexyl-anisole	-	Sol	Band freq	Wilds	JACS 75 (1953)	5360
$C_{13}H_{20}O$	2,4-Diisopropyl-5-methylphenol	650-1400	Sol	Spec	Shrewsbury	SA 16 (1960)	1294
$C_{13}H_{20}O$	2,5-Diisopropyl-4-methylphenol	650-1400	Sol	Spec	Shrewsbury	SA 16 (1960)	1294
$C_{13}H_{20}O$	2,6-Diisopropyl-4-methylphenol	3500-3800	Sol	Freq, Hammett const	Puttnam	JCS - (1960)	5100
$C_{13}H_{20}O$	1,4,5,6,7,8-Hexahydro-2-methoxy-5,5-dimethylnaphthalene	700-3000	Sol	Spec	Armour	HCA 42 (1959)	2233
$C_{13}H_{20}O$	α -Ionone	1700-700	-	Spec	Naves	CPR 238 (1954)	1308
$C_{13}H_{20}O$	β -Ionone	-	L	Group freq, Table	Farrar	JCS - (1952)	2657
$C_{13}H_{20}O$	2-Methyl-4-t-butyl-5-ethylphenol	1700-700	-	Spec	Naves	CPR 238 (1954)	1308
$C_{13}H_{20}O$	2-Methyl-4-t-butyl-5-ethylphenol	650-1400	Sol	Spec	Shrewsbury	SA 16 (1960)	1294
$C_{13}H_{20}O$	2-Methyl-4,6-diisopropylphenol	650-1400	Sol	Spec	Shrewsbury	SA 16 (1960)	1294
$C_{13}H_{20}O$	2-Methyl-4-ethyl-6-t-butylphenol	650-1400	Sol	Spec	Shrewsbury	SA 16 (1960)	1294

$C_{13}H_{20}O_2$		L	Spec	Bein	JACS	74 (1952)	4292
Alloocimenecarbinol acetate	-						
$C_{13}H_{20}O_2$	p-t-Amylphenoxxyethanol	2-15 μ	Spec	Kendall	APS	7 (1953)	179
$C_{13}H_{20}O_2$	3,5-Di-t-butylcoumalin	-	Band study	Campbell	JACS	73 (1951)	4190
$C_{13}H_{20}O_2$	Dipentene-7-carbinol acetate	-	Spec	Bein	JACS	74 (1952)	4292
$C_{13}H_{20}O_2$	Tridec-2-en-5-ynoic acid	2-16 μ	Spec, Group freq	Celmer	JACS	75 (1953)	3430
$C_{13}H_{20}O_3$	1-Acetoxyacetylhexahydroindane	-	Group study	Coles	JCS	- (1954)	2617
$C_{13}H_{20}O_3$	4-t-Butylperoxy-2,4,6-trimethylcyclohexa-2,5-dienone	5.7-6.2 μ	Group study	Bickel	JCS	- (1953)	3211
$C_{13}H_{20}O_3$	Ethyl orthobenzoate	1010-1200	Spec, Struct	Bergmann	JACS	73 (1951)	2352
$C_{13}H_{20}O_3$	1,6,6-Trimethyl-4-oxo-2-isopropylcyclohex-2-enecarboxylic acid	-	Group freq, I	Braude	JCS	- (1954)	607
$C_{13}H_{20}O_3S$	α, α, β -Trimethyl- β -hydroxy-n-propyl p-tolyl sulfone	-	Group freq	Field	JACS	75 (1953)	5582
$C_{13}H_{20}O_4$	4-Carboxy-3-methylhexahydroindane-2-acetic acid	-	Group freq	Pasternack	JACS	74 (1952)	1928
$C_{13}H_{20}O_4$	3-(2,2-Dimethyl-6-hydroxy-6 β -carboxymethylcyclohexyl)propionic acid lactone	2.5-16 μ	Spec, Group freq	Stauffaother	HCA	37 (1954)	1227

$C_{13}H_{20}O_4$	Ethyl trans-5,6,7,8,9,10-hexahydro-2-methylchroman-4-one- β -carboxylate	1500-2000	S	Band freq	Kidd	JCS - (1953)	3244
$C_{13}H_{20}O_4$	5-Methylperhydro-(4a α , 8a α) naphthalene-1 β , 4 β -diol-6-one-1-acetate	-	-	Group study	Beyler	JACS 74 (1952)	1406
$C_{13}H_{20}O_4$	5-Methylperhydro-(4a α , 8a α) naphthalene-1 β , 4 β -diol-6-one-4-acetate	-	-	Group study	Beyler	JACS 74 (1952)	1406
$C_{13}H_{20}O_4$	5-Methylperhydro-(4a β , 8a β) naphthalene-1 α , 4 α -diol-6-one-4-acetate	-	-	Group study	Beyler	JACS 74 (1952)	1406
$C_{13}H_{20}O_5$	Diethyl cyclohexanone-2-acetate-2-carboxylate	-	L	Table, Band freq	Leonard	JACS 74 (1952)	4070
$C_{13}H_{20}O_5$	Diethyl cyclohexanone-6-acetate-2-carboxylate	-	L	Table, Band freq	Leonard	JACS 74 (1952)	4070
$C_{13}H_{20}O_5$	Diethyl cyclopentanone-2-carboxylate-2- β -propionate	-	L	Table, Band freq	Leonard	JACS 74 (1952)	4070
$C_{13}H_{20}O_5$	Diethyl cyclopentanone-2-carboxylate-5- β -propionate	-	L	Table, Band freq	Leonard	JACS 74 (1952)	4070
$C_{13}H_{20}O_8$	6-Deoxy-L-mannopyranose-1,2-(methyl orthoacetate) diacetate	2-15 μ	S	Spec	Tipson	JRNB 62 (1959)	257
$C_{13}H_{20}O_8$	Methyl triacetyl- α -L-rhamnoside	2-15 μ	Sol	Band freq, I Anal, Band freq, I	Barker Whistler	JCS - (1954) AC 25 (1953)	3468 1463
$C_{13}H_{20}O_8$	Methyl triacetyl- β -L-rhamnoside	2-15 μ	Sol	Anal, Band freq, I	Whistler	AC 25 (1953)	1463

C ₁₃ H ₂₀ O ₈	Pentaerythritol tetraacetate	1075-1125	Sol	Anal	Jaffe	AC	23 (1951)	1164
C ₁₃ H ₂₀ O ₉	Methyl 2,3,4-tri-O-acetyl- α -D-mannopyranoside	-	S	Band freq, I	Barker	JCS	-	(1954) 3468
C ₁₃ H ₂₀ O ₉	Methyl 2,3,4-tri-O-acetyl- β -D-glucopyranoside	-	S	Band freq, I	Barker	JCS	-	(1954) 3468
C ₁₃ H ₂₁ N	3-s-Butylidene-5-ethyl-5-methyl-2-vinylpyrroline	6.29 μ	Sol	Substitution effect	Meyers	JOC	24 (1959)	1233
C ₁₃ H ₂₁ N	2,6-Di-t-butylpyridine	2-15 μ	L	Group freq	Podall	AC	29 (1957)	1423
C ₁₃ H ₂₁ N	Base from Dioscoreine	-	-	Band freq, Ident	Pinder	JCS	-	(1953) 1825
C ₁₃ H ₂₁ N	Base from Dioscorea alkaloid	-	-	Band freq	Pinder	JCS	-	(1953) 1825
C ₁₃ H ₂₁ NO	2,5,5-Trimethyl-3-N-pyrrolidylcyclohex-2-ene-1-one	-	Sol	Freq, Struct	Leonard	JACS	81 (1959)	595
C ₁₃ H ₂₁ NO ₂	Dihydro alkaloid of dioscorea hispida, denstedt	-	L,S	Stretch freq, Struct	Pinder	JCS	-	(1952) 2236
C ₁₃ H ₂₁ NO ₃	1,4-Diethyl-4-s-amylo-2,3,5-pyrrolidinetriene	-	-	Spec	Skinner	JACS	72 (1950)	5569
C ₁₃ H ₂₁ NO ₃	1-Isopropyl-4-ethyl-4-n-butyl-2,3,5-pyrrolidinetriene	-	-	Spec	Skinner	JACS	72 (1950)	5569
C ₁₃ H ₂₁ NO ₅ S	2,2-bis-(2-carboxyethyl)-4-thiazolidone diethyl ester	-	Sol	Group freq	Pennington	JACS	75 (1953)	109
C ₁₃ H ₂₂	2-Methyldodec-1-en-11-yne	-	-	Anal	Black	JCS	-	(1953) 1785

$C_{13}H_{22}N_2$	Dicyclohexylcarbodiimide	-	2300-2000	-	Sol	Group freq Stretch freq	Khorrana Meakins	CR 53 JCS -	145 (1953) 993 (1957)
$C_{13}H_{22}N_2$	Dicyclohexyl cyanamide	1025-1700	-	-	-	Spec	Barnes	IEC 15	659 (1943)
$C_{13}H_{22}N_2O_4S_2$	cis-N,N'-Dimethyl-N,N'-dimethylsulfonyl-diaminomesitylene	-	-	-	-	Iso	Adams	JACS 75	2375 (1953)
$C_{13}H_{22}N_2O_4S_2$	trans-N,N'-Dimethyl-N,N'-dimethylsulfonyldiaminomesitylene	-	-	-	-	Iso	Adams	JACS 75	2375 (1953)
$C_{13}H_{22}N_2O_8$	Diethyl (γ -hydroxy- δ -nitro-n-butyl)acetamidomalonate	-	-	-	-	Group freq	Vanzyl	JACS 73	1765 (1951)
$C_{13}H_{22}O$	4-(2,2-Dimethyl-6-methylenecyclohexyl)-2-butanone	2.5-16 μ	-	-	-	Spec, Group freq	Stauffer	HCA 37	1227 (1954)
$C_{13}H_{22}O$	1,2,3,4,5,6,7,8-Octahydro-2-hydroxy-2,5,5-trimethylnaphthalene	800-4000	-	-	-	Spec	Armour	HCA 42	2233 (1959)
$C_{13}H_{22}O$	Δ^8 -2,5,5-Trimethyl-octahydro-2-naphthol	800-4000	-	-	-	Inductive effect	Armour	HCA 42	2233 (1959)
$C_{13}H_{22}OSi$	Trimethylsilylbutyl phenyl ether	-	-	-	-	Inductive effect	Josien	CPR 249	826 (1959)
$C_{13}H_{22}O_2$	1-Acetoxyl-ethyl-hexahydroindane	-	-	-	-	Group freq	Coles	JCS -	2617 (1954)
$C_{13}H_{22}O_2$	2-Heptyl-cyclohexane-1,3-dione	1800-1500	-	-	-	Spec, Solvent effect	Delvaux	SA 12	289 (1958)
$C_{13}H_{22}O_2$	Methyl 2,4-dodecadienoate	9-3 μ	-	-	-	Spec	Holman	AC 28	1533 (1956)

	trans-10-Hydroxymethyl-2-decalone-2-dioxolane	2.92-10.9 μ Sol	Table, I	Dreiding	JACS 77 (1955)	411
C ₁₃ H ₂₂ O ₃	5-Methyl-4 β ,6 β -epoxy-6-ethoxyperhydro-(4 α ,8 α)naphthalene-1 β -ol	-	Band study	Beyer	JACS 74 (1952)	1406
C ₁₃ H ₂₂ O ₃ S1	Ethyl 2-(β -trimethylsilyl-ethyl)-5-methyl-3-furoate	-	Group. freq	Sommer	JACS 76 (1954)	1606
C ₁₃ H ₂₂ O ₄	Nonyl fumarate	2-15 μ L	Assign, Generalisation	Walton	JACS 79 (1957)	3985
C ₁₃ H ₂₂ O ₅	3-(2,2-Dimethyl-6-hydroxy-6 β -carboxymethylcyclohexyl)propionic acid	2.5-16 μ S	Spec, Group freq	Stauffer	HCA 37 (1954)	1227
C ₁₃ H ₂₂ BrO	2-Bromocyclotridecanone	- Sol	Freq	Leonard	JACS 80 (1958)	6039
C ₁₃ H ₂₃ NO	N-Isobutyl-trans-2-cis-6-nonadienamide	-	Band study	Crombie	JCS - (1952)	2997
C ₁₃ H ₂₃ NO	N-Isobutyl-trans-2-trans-6-nonadienamide	-	Band study	Crombie	JCS - (1952)	2997
C ₁₃ H ₂₃ NOS	2-(Δ^9 -n-Decenyl)-4-thiazolidone	- Sol	Band freq	Pennington	JACS 75 (1953)	109
C ₁₃ H ₂₃ NO ₃ S	2-(8-Carboxyoctyl)-4-thiazolidone methyl ester	- Sol	Band freq	Pennington	JACS 75 (1953)	109
C ₁₃ H ₂₃ NO ₄	Diethyl piperidyl-1,4-diacetate	- L	Band freq	Leonard	JACS 75 (1953)	6249
C ₁₃ H ₂₄	Dicyclohexylmethane	-	Band freq, Absorbance Quant anal	Bomstein	AC 25 (1953)	512
	700-5000	Sol	Spec, Struct	Pinchas	AC 30 (1958)	1863
	15-35 μ	S,Sol		Bentley	SA 15 (1959)	165

$C_{13}H_{24}$	Isopropyldecalin	8000-9000	Sol	Anal	Hibbard	AC	21 (1949)	486
$C_{13}H_{24}$	3-Methylbicyclohexyl	8000-9000	Sol	Anal	Hibbard	AC	21 (1949)	486
$C_{13}H_{24}$	1-Methyl-2-cyclohexyl-cyclohexane	15-35 μ	S,Sol	Spec, Struct	Bentley	SA	15 (1959)	165
$C_{13}H_{24}N_2O$	Sym-Dicyclohexylurea	700-4000	S	Spec, Group freq	Dekker	JACS	76 (1954)	3522
$C_{13}H_{24}N_2O_5S$	S-Acetylpanthetheine	-	-	Group study	Walton	JACS	76 (1954)	1146
$C_{13}H_{24}N_2O_{11}$	Macrozamin	5-9 μ	S	Spec, Struct, Band freq	Laugley	JCS	- (1951)	2309
$C_{13}H_{24}O$	Cyclotridecanone	- •	Sol	Carbonyl freq	Leonard	JACS	80 (1958)	6039
		-	Sol	Stretch & Bending freq	Burrer	HCA	43 (1960)	1487
$C_{13}H_{24}O_2$	2-Methyl-2-dodecenoic acid	5.5-16 μ	L,Sol	Spec, Struct	Freeman	JACS	75 (1953)	1859
		-	Sol	Band freq	Cason	JOC	19 (1954)	1836
$C_{13}H_{24}O_2$	2-Methylenedodecanoic acid	5.5-16 μ	L,Sol	Spec, Struct	Freeman	JACS	75 (1953)	1859
$C_{13}H_{24}O_2$	2,5,5-Trimethyl-2,9-dihydroxydecahydronaphthalene	800-4000	Sol	Spec	Armour	HCA	42 (1959)	2233
$C_{13}H_{24}O_3$	14-Hydroxy-4-oxatetradecanoic acid lactone	5.4-10.8 μ	-	Spec	Allen	JOC	14 (1949)	754
$C_{13}H_{24}O_3$	Methyl α -t-butyl-trimethyllevullinate	-	-	Group freq	Wiberg	JACS	76 (1954)	5367
$C_{13}H_{24}O_4$	Diethyl azelate	800-1800 670-3500	L L,S	Spec, Ident Spec, Config	Stafford Corish	AC JCS	26 (1954) - (1958)	656 927
$C_{13}H_{24}O_5$	Methyl mycarose-4-iso-valerate	-	-	Ident	Hochstein	JACS	76 (1954)	5080

C ₁₃ H ₂₅ ClO ₂	Dodecyl chloro carbonate	-	S	Band freq	Ory	SA	16 (1960)	1488
C ₁₃ H ₂₅ N	ω-Cyclohexylethyl s-butyl ketimine	-	-	Group freq	Pickard	JACS	76 (1954)	5169
C ₁₃ H ₂₅ N	1-Piperidino-2-ethyl-1-hexene	-	-	Spec	Opitz	A	623 (1959)	112
C ₁₃ H ₂₅ NO ₂	1-Methyl-1-azacyclo-tridecan-7-ol-8-one	-	Sol	Group freq	Leonard	JACS	76 (1954)	5708
C ₁₃ H ₂₅ NS	Dodecyl thiocyanate	1400-1800	L	Spec, Anal	Whiffen	TFS	41 (1945)	200
C ₁₃ H ₂₅ NS	Dodecyl isothiocyanate	1400-1800	L	Spec, Anal	Whiffen	TFS	41 (1945)	200
C ₁₃ H ₂₆	2-t-Butyl-3,3,4,4-tetramethyl-1-pentene	-	-	Group freq	Bartlett	JACS	77 (1955)	2806
C ₁₃ H ₂₆	Cyclotridecane	650-1600	L,S	Spec	Billetter	HCA	41 (1958)	338
C ₁₃ H ₂₆	3-Isoamyl-6-methyl-2-heptene	-	-	Spec, Ident, Anal	Cronyn	JACS	74 (1952)	1225
C ₁₃ H ₂₆	1-Tridecene	-	-	Band assign	Harrah	JCP	33 (1960)	298
C ₁₃ H ₂₆ N ₆	Diamylmelamine	1050-1800	-	Spec	Barnes	IEC	15 (1943)	659
C ₁₃ H ₂₆ O	2-t-Butyl-1:2-epoxy-3,3,4,4-tetramethyl-pentane	-	-	Group freq	Bartlett	JACS	77 (1955)	2806
C ₁₃ H ₂₆ O	2-Tridecanone	2-16 μ	Sol	Spec, Group freq	Hoerr	JPC	59 (1955)	457
C ₁₃ H ₂₆ O ₂	Methyl laurate	1300-1800	-	Spec	Barnes	IEC	15 (1943)	659
		1-12 μ	Sol	Spec, Table, Ext coeff	O'Connor	JACOC	28 (1951)	154
		6.83-11.6	L	Spec, Table, Freq, I	Fowler	JOSA	43 (1953)	1054
C ₁₃ H ₂₆ O ₂	n-Tridecanoic acid	2-15 μ	S	Spec, Quant anal	Meiklejohn	AC	29 (1957)	329
		650-4000	S	Spec, Freq	Susi	JACOC	37 (1960)	431

$C_{13}H_{26}O_6$	Methyl 2,3,6-triethyl- β -D-glucoside	8-15 μ	S	Spec	Kuhn	AC	22 (1950)	276
$C_{13}H_{27}Cl_3OSi$	Trichlorosilylnonyl butyl ether	-	-	Inductive effect	Josien	CPR	249 (1959)	826
$C_{13}H_{27}Cl_3OSi$	Trichlorosilylundecyl ethyl ether	-	-	Inductive effect	Josien	CPR	249 (1959)	826
$C_{13}H_{27}N$	Hexhydro-base from dioscorea alkaloid	-	-	Band freq	Pinder	JCS	- (1953)	1825
$C_{13}H_{27}NO$	cis-2-Aminocyclotri-decanol	-	Sol	Freq, Assign, Shift	Sicher	CCCC	24 (1959)	950
$C_{13}H_{27}NO$	trans-2-Aminocyclotri-decanol	-	Sol	Freq, Assign, Shift	Sicher	CCCC	24 (1959)	950
$C_{13}H_{27}NO$	3,3-Dimethyl-1-n-heptyl-amino-2-butanone	-	S	Group freq	Leonard	JACS	77 (1955)	3272
$C_{13}H_{27}O_3B$	1-Ethoxycarbonylethyl dibutylboronite	1500-1800	L	H bond, Carbonyl freq	Duncanson	JCS	- (1958)	3652
$C_{13}H_{28}$	n-Tridecane	1.1-1.25 μ 700-3000	L Sol	Absorption coeff, Anal Ext coeff	Evans Jones	AC SA	23 (1951) 9 (1957)	1604 235
$C_{13}H_{28}O$	Tri-t-butylcarbinol	-	-	Group freq	Bartlett	JACS	77 (1955)	2801
$C_{13}H_{28}O_3$	Tributoxymethane	-	Sol	Spec, Freq	Nukada	NKZ	81 (1960)	1028
$C_{13}H_{28}O_4$	1,1,5,5-Tetraethoxy-pentane	-	-	Spec	Hall	JCS	- (1951)	2480
$C_{13}H_{28}Si$	Cyclopentamethylene-dibutylsilane	2-35 μ	L	Spec, Assign	Oshesky	JACS	79 (1957)	2057
$C_{13}H_{29}N$	Methyldodecylamine	2-16 μ	L	Spec, Group freq	Dubrow	JOC	17 (1952)	1043

$C_{13}H_{30}OSi$	Trimethylsilylhexyl butyl ether	-	-	Inductive effect	Josien	CPR 249 (1959)	826
$C_{13}H_{30}OSi$	Trimethylsilylnonyl methyl ether	-	-	Inductive effect	Josien	CPR 249 (1959)	826
$C_{13}H_{30}OSi$	Trimethylsilyloctyl ethyl ether	-	-	Inductive effect	Josien	CPR 249 (1959)	826
$C_{13}H_{30}OSi$	Methyl-triisobutoxy-silane	750-3000	L	Spec, Table, Group assign	Richards	JCS - (1949)	124
$C_{13}H_{30}O_2Si$	Methyl-tri-n-butoxy-silane	750-3000	L	Spec, Table, Group assign	Richards	JCS - (1949)	124
$C_{13}H_{34}O_2Si_3$	Trimethylpentaethoxy-trioiloxane	600-3500	L	Spec	Okawara	BCSJ 31 (1958)	154
$C_{13}D_{11}NS$	Thiobenzanilide-d ₁₁	600-1700	S, Sol	Spec, Freq, Assign	Hadzi	JCS - (1957)	847
<u>C_{14} COMPOUNDS</u>							
$C_{14}H_4D_4O_6$	1,4,5,8-Tetrahydroxy-anthraquinone-d ₄	700-4000	S	Spec	Hadzi	TFS 50 (1954)	911
$C_{14}H_4F_2O_4$	2,2,3,3,4,4,5,5-Octafluoro-1,6-hexanediol bis-heptafluorobutyrate	-	L	Group freq	Rappaport	JACS 75 (1953)	2695
$C_{14}H_6$	Dimethylhexacetylene	-	-	Freq	Weber	JCP 21 (1953)	1613
$C_{14}H_6D_2O_4$	1,4-Dihydroxyanthraquinone-d ₂	700-4000	S	Spec	Hadzi	TFS 50 (1954)	911
$C_{14}H_6D_2O_4$	1,5-Dihydroxyanthraquinone-d ₂	700-4000	S	Spec	Hadzi	TFS 50 (1954)	911

$C_{14}H_6Cl_2O_2$	1,5-Dichloroanthraquinone	1686	Sol	Freq	Flett	JCS -	(1948)	1441
$C_{14}H_6Cl_2O_2$	1,8-Dichloroanthraquinone	1691	Sol	Freq	Flett	JCS -	(1948)	1441
$C_{14}H_6Cl_2O_2$	2,7-Dichloroanthraquinone	1600-1800	Sol	Freq	Josien	JCP 21	(1953)	331
$C_{14}H_6F_2N_2O_4$	4,4'-Dinitro-3,3'-bistrifluoromethyl-diphenyl	700-1800	L,S	Freq, I Group freq	Randle Randle	JCS -	(1952)	4153
$C_{14}H_6O_8$	Ellagic acid	5.0-6.15 μ	S	Struct	Stitt	JACS 81	(1959)	4615
$C_{14}H_7BrO_2$	3-Bromo-9,10-phenanthraquinone	1600-1800	S,Sol	Group freq	Josien	JCP 21	(1953)	331
$C_{14}H_7ClO_2$	1-Chloroanthraquinone	1680 1600-1800 2-15 μ	Sol Sol S	Group freq Group freq Freq assign, Ident	Flett Josien Bloom	JCS - JCP 21 JCS -	(1948) (1953) (1959)	1441 331 178
$C_{14}H_7ClO_2$	2-Chloroanthraquinone	1680 1600-1800 2-15 μ	Sol Sol S	Group freq Group freq Freq assign, Ident	Flett Josien Bloom	JCS - JCP 21 JCS -	(1948) (1953) (1959)	1441 331 178
$C_{14}H_7NO_4$	2-Nitroanthraquinone	1684	Sol	Group freq	Flett	JCS -	(1948)	1441
$C_{14}H_8D_2$	Anthracene-9,10-d ₂	-	Sol	Group freq, Assign, Struct	Gold	JACS 75	(1953)	4543
$C_{14}H_8Br_2O_4$	Di-(p-bromobenzoyl) peroxide	-	Sol	Group freq	Davison	JCS -	(1951)	2456
$C_{14}H_8Br_2O_4$	2,2'-Dibromo-4,4'-dicarboxydiphenyl	-	-	Freq, FC	Westheimer	JCP 15	(1947)	252
$C_{14}H_8Cl_2O_4$	Di-(m-chlorobenzoyl) peroxide	-	Sol	Group freq	Davison	JCS -	(1951)	2456
$C_{14}H_8Cl_2O_4$	Di-(p-chlorobenzoyl) peroxide	-	Sol	Group freq	Davison	JCS -	(1951)	2456

C ₁₄ H ₈ Cl ₄	1,1-Dichloro-2,2-bis-(p-chlorophenyl)ethylene	7-15 μ	Sol	Spec Analysis	Downing McDonald	IEC AC	18 (1946) 29 (1957)	461 339
C ₁₄ H ₈ Cl ₄ O ₂	1,2,3,4-Tetrachloro-5,6-dioxo-7-phenyl bicyclo [2.2.2] octa-2-ene	-	S	Group freq	Burnell	JCS	-	(1955) 2054
C ₁₄ H ₈ Cl ₄ O ₂ ·H ₂ O	1,2,3,4-Tetrachloro-5,6-dioxo-7-phenyl bicyclo [2.2.2] oct-2-ene hydrate	-	S	Freq	Burnell	JCS	-	(1955) 2054
C ₁₄ H ₈ F ₂ O ₄	Di-(p-fluorobenzoyl) peroxide	-	Sol	Group freq	Davison	JCS	-	(1951) 2456
C ₁₄ H ₈ I ₂ O ₄	Di-(p-iodobenzoyl) peroxide	-	Sol	Group freq	Davison	JCS	-	(1951) 2456
C ₁₄ H ₈ N ₂ O ₂ S ₂	Di-(p-cyano)phenyl benzene -thiosulfonate	5.5-24 μ 7-9 μ	S S	Spec, Freq Assign	Cymerman Haszeldine	JCS JCS	- -	(1951) 1332 (1955) 2901
C ₁₄ H ₈ N ₂ O ₄	9,10-Dinitroanthracene	600-2000	S	Freq, I, Assign	Trotter	CJC	37	(1959) 351
C ₁₄ H ₈ N ₂ O ₈	Di-(m-nitrobenzoyl) peroxide	-	Sol	Group freq	Davison	JCS	-	(1951) 2456
C ₁₄ H ₈ N ₂ O ₈	Di-(p-nitrobenzoyl) peroxide	-	Sol	Group freq	Davison	JCS	-	(1951) 2456
C ₁₄ H ₈ N ₂ S ₂	Di-p-cyanophenyl disulphide	5.5-24 μ	S	Spec, Freq	Cymerman	JCS	-	(1951) 1332
C ₁₄ H ₈ N ₂ S ₄	2,2'-Dibenzothiazyl disulfide	2800-3500	Sol	Spec, Freq, Struct	Flett	JCS	-	(1953) 347
C ₁₄ H ₈ N ₄ O ₆	bis-(m-Nitrophenyl) furoxan	-	S	I, Freq	Boyer	JACS	77	(1955) 4238
C ₁₄ H ₈ N ₆	Diphenyl-4,4'-bisdiazocyanide	4-14 μ	Sol	Spec, Freq	Anderson	JCS	-	(1947) 445

$C_{14}H_8O_2$	Anthraquinone	1678	Sol	Group freq	Flett	JCS -	(1948)	1441
		-	-	Group freq	Johns on	JCS -	(1952)	2672
		1600-1800	Sol	Vibrations	Josien	JCP 21	(1953)	331
		2-16 μ	S	Spec	Tyler	AC 25	(1953)	390
		700-4000	S,Sol	Spec	Hadzi	TFS 50	(1954)	911
		2-15 μ	S	Freq	Bloom	JCS -	(1959)	178
		-	-	H bond, IR	Shigorin	DANS 132	(1960)	1372
$C_{14}H_8O_2$	1,2-Anthraquinone	1600-1800	Sol	Group freq	Josien	JCP 21	(1953)	331
$C_{14}H_8O_2$	1,4-Anthraquinone	1600-1800	Sol	Group freq	Josien	JCP 21	(1953)	331
$C_{14}H_8O_2$	1,2-Phenanthraquinone	1600-1800	Sol	Group freq	Josien	JCP 21	(1953)	331
$C_{14}H_8O_2$	1,4-Phenanthraquinone	1600-1800	Sol	Group freq	Josien	JCP 21	(1953)	331
$C_{14}H_8O_2$	3,4-Phenanthraquinone	1600-1800	Sol	Group freq	Josien	JCP 21	(1953)	331
$C_{14}H_8O_2$	9,10-Phenanthraquinone	1600-1800	Sol	Group freq	Josien	JCP 21	(1953)	331
$C_{14}H_8O_3$	9-Fluorenone-4-carboxylic acid	5.5-6.5 μ	Sol	Ident	Sawicki	AC 31	(1959)	523
$C_{14}H_8O_3$	9-Fluorenone-1-carboxylic acid	-	S	Group freq	Josien	JACS 73	(1951)	478
		5.5-6.5 μ	Sol	Ident	Sawicki	AC 31	(1959)	523
$C_{14}H_8O_3$	1-Hydroxyanthraquinone	1636	Sol	H bond	Hilbert	JACS 58	(1936)	548
		1071	-	Group freq	Flett	JCS -	(1948)	1441
		700-4000	S,Sol	I	Willis	AJSR 4A	(1951)	172
		2-15 μ	S	Spec	Hadzi	TFS 50	(1954)	911
		-	-	Freq assign	Bloom	JCS -	(1959)	178
		-	-	H bond, IR	Shigorin	DANS 132	(1960)	1372
$C_{14}H_8O_3$	2-Hydroxyanthraquinone	1673	-	Group freq	Flett	JCS -	(1948)	1441
		2-15 μ	S	Freq, Assign	Bloom	JCS -	(1959)	178
$C_{14}H_8O_3$	1-Hydroxy-9,10-phenan-	1600-1800	S,Sol	Group freq	Josien	JCP 21	(1953)	331

$C_{14}H_8O_3$	2-Hydroxy-9,10-phenanthraquinone	1600-1800	S, Sol	Group freq	Josien	JCP	21 (1953)	331
$C_{14}H_8O_4$	1,2-Dihydroxyanthraquinone	1660-3380 2-15 μ	- S	Group freq Freq, Assign	Flett Bloom	JCS JCS	- -	(1948) 1441 (1959) 178
$C_{14}H_8O_4$	1,3-Dihydroxyanthraquinone	1660-3380 2-15 μ	- S	Group freq Freq assign	Flett Bloom	JCS JCS	- -	(1948) 1441 (1959) 178
$C_{14}H_8O_4$	1,4-Dihydroxyanthraquinone	1627 700-4000 2-15 μ	S S, Sol S	Group freq Spec Freq, Assign	Flett Hadzi Bloom	JCS TFS JCS	- 50 -	(1948) 1441 (1954) 911 (1959) 178
$C_{14}H_8O_4$	1,5-Dihydroxyanthraquinone	1639 - 700-4000 2-15 μ	- Sol S S	Group freq Freq Spec Freq assign	Flett Bellamy Hadzi Bloom	JCS JCS TFS JCS	- - 50 -	(1948) 1441 (1954) 4487 (1954) 911 (1959) 178
$C_{14}H_8O_4$	1,6-Dihydroxyanthraquinone	2-15 μ	S	Freq, Assign	Bloom	JCS	-	(1959) 178
$C_{14}H_8O_4$	1,8-Dihydroxyanthraquinone	1622 - 2-15 μ	- - S	Group freq H bond, Freq Freq, Assign	Flett Pinchas Bloom	JCS AC JCS	- 29 -	(1948) 1441 (1957) 334 (1959) 178
$C_{14}H_8O_4$	2,3-Dihydroxyanthraquinone	2-15 μ	S	Freq, Assign	Bloom	JCS	-	(1959) 178
$C_{14}H_8O_4$	2,6-Dihydroxyanthraquinone	2-15 μ	S	Freq, Assing	Bloom	JCS	-	(1959) 178
$C_{14}H_8O_4$	2,7-Dihydroxyanthraquinone	2-15 μ	S	Freq, Assign	Bloom	JCS	-	(1959) 178
$C_{14}H_8O_4$	3,4-Dihydroxy-9,10-phenanthraquinone	1600-1800	S	Group freq	Josien	JCP	21	(1953) 331
$C_{14}H_8O_4$	Disalicylide	1700-1800	S, Sol	Group freq	Short	JCS	-	(1952) 206

$C_{14}H_{10}O_4$	3-Hydroxy-2-fluorenone-carboxylic acid	5.5-6.5 μ	Sol	Ident	Sawicki	AC	31 (1959)	523
$C_{14}H_{10}O_5$	1,2,3-Trihydroxyanthraquinone	2-15 μ	S	Freq, Assign	Bloom	JCS	- (1959)	178
$C_{14}H_{10}O_5$	1,2,4-Trihydroxyanthraquinone	2-15 μ	S	Freq, Assign	Bloom	JCS	- (1959)	178
$C_{14}H_{10}O_5$	1,2,5-Trihydroxyanthraquinone	2-15 μ	S	Freq, Assign	Bloom	JCS	- (1959)	178
$C_{14}H_{10}O_5$	1,2,6-Trihydroxyanthraquinone	2-15 μ	S	Freq, Assign	Bloom	JCS	- (1959)	178
$C_{14}H_{10}O_5$	1,2,7-Trihydroxyanthraquinone	2-15 μ	S	Freq, Assign	Bloom	JCS	- (1959)	178
$C_{14}H_{10}O_5$	1,2,8-Trihydroxyanthraquinone	2-15 μ	S	Freq, Assign	Bloom	JCS	- (1959)	178
$C_{14}H_{10}O_5$	1,3,4-Trihydroxyanthraquinone	1623	-	Group freq	Flett	JCS	- (1948)	1441
$C_{14}H_{10}O_5$	1,3,8-Trihydroxyanthraquinone	2-15 μ	S	Freq, Assign	Bloom	JCS	- (1959)	178
$C_{14}H_{10}O_5$	1,4,8-Trihydroxyanthraquinone	2-15 μ	S	Freq, Assign	Bloom	JCS	- (1959)	178
$C_{14}H_{10}O_6$	1,2,5,8-Tetrahydroxyanthraquinone	-	Sol	Freq, Assign	Bellamy	JCS	- (1954)	4487
$C_{14}H_{10}O_6$	1,3,5,7-Tetrahydroxyanthraquinone	2-15 μ	Sol	Freq, Assign	Bloom	JCS	- (1959)	178
$C_{14}H_{10}O_6$	1,4,5,8-Tetrahydroxyanthraquinone	1595	-	Group freq	Flett	JCS	- (1948)	1441
		3-15 μ	S	Low temp. effects	Walsh	JCP	18 (1950)	552
		700-4000	S	Spec	Hadzi	TFS	50 (1954)	911
		2-15 μ	S	Freq, Assign	Bloom	JCS	- (1959)	178

C ₁₄ H ₈ O ₈	1,2,3,5,6,7-Hexahydroxy-anthraquinone	2-15 μ	S	Freq, Assign	Bloom	JCS - (1959)	178
C ₁₄ H ₉ D	9-Anthracene-d ₁	-	Sol	Freq, Anal, Struct	Gold	JACS 75 (1953)	4543
C ₁₄ H ₉ BrO ₂	2-Bromo-4-methoxy-1-benzonaphthenone	1600-1800	Sol	Group freq	Josien	JCP 21 (1953)	331
C ₁₄ H ₉ Br ₂ F ₃ O	Di-p-bromophenyl(tri-fluoromethyl)carbinol	-	-	Group freq	Kaluszyner	JACS 77 (1955)	4164
C ₁₄ H ₉ ClO	4-Chloroanthrone	1654	S	Group freq	Flett	JCS - (1948)	1441
C ₁₄ H ₉ ClO ₂	6-Chloro-2-methylxanthone	-	S	Group freq	Newman	JOC 19 (1954)	996
C ₁₄ H ₉ ClO ₂	4-Chloroanthrone	3460	S,Sol	Group freq	Flett	JCS - (1948)	1441
C ₁₄ H ₉ Cl ₂ F ₃ O	Di-p-chlorophenyl(tri-fluoromethyl)carbinol	-	Sol	H bond	Kaluszyner	JACS 77 (1955)	4164
C ₁₄ H ₉ Cl ₃ N ₂ O ₃	Monoacetyl derivative of trichlorodihydroxy-dihydrophenazine	650-5000	S	Spec	Gagnon	CJC 35 (1957)	1423
C ₁₄ H ₉ Cl ₅	1-(m-Chlorophenyl)-1-(p-chlorophenyl)-2,2,2-trichloroethane	7-14 μ	Sol	Spec, Analysis	Downing	IEC 18 (1946)	461
C ₁₄ H ₉ Cl ₅	1-(p-Chlorophenyl)-1-(o-chlorophenyl)-2,2,2-trichloroethane	7-14 μ 650-1400	Sol Sol	Spec, Analysis Quant anal	Downing McDonald	IEC 18 (1946) AC 29 (1957)	461 339
C ₁₄ H ₉ Cl ₅	1,1,1-Trichloro-2,2-bis(p-chlorophenyl)ethane	7-14 μ 2-15.5 μ 650-1400	- Sol Sol	Spec, Analysis Spec Quant anal	Downing Garhart McDonald	IEC 18 (1946) AC 24 (1952) AC 29 (1957)	461 851 339
C ₁₄ H ₉ Cl ₅ O ₃ S	2,2,2-Trichloro-1-o-chlorophenylethyl p-chlorobenzene-sulfonate	7-13 μ	Sol	Spec	Downing	IEC 18 (1946)	461

$C_{14}H_9F_5O$	Di-p-fluorophenyl (trifluoromethyl) carbinol	-	Sol	Freq	Kaluszyner	JACS 77 (1955)	4164
$C_{14}H_9NO$	Phenanthraquinoneimide	6100-6400	Sol	Spec, Group Anal	Wulf	JACS 57 (1935)	1464
$C_{14}H_9NO_2$	1-Aminoanthraquinone	1612-3300 2-3 μ	- S	Freq Freq	Flett Wyman	JCS - (1948) JACS 78 (1956)	1441 4599
$C_{14}H_9NO_2$	2-Aminoanthraquinone	1612-3300	-	Freq	Flett	JCS - (1948)	1441
$C_{14}H_9NO_2$	2-Amino-9,10-phenanthraquinone	1600-1800	S,Sol	Group freq	Josien	JCP 21 (1953)	331
$C_{14}H_9NO_2$	N-(1-Naphthyl)maleimide	2-15 μ	Sol	Freq	Tsou	JACS 77 (1955)	4613
$C_{14}H_9NO_2$	9-Nitromethylenefluorene	732-1656	-	Group freq	Eaborn	JCS - (1955)	1420
$C_{14}H_9NO_2$	9-Nitroanthracene	600-2000	S	Freq, I, Assign	Trotter	CJC 37 (1959)	351
$C_{14}H_9NO_3$	N-(4-Hydroxy-1-naphthyl) maleimide	2-15 μ	Sol	Freq	Tsou	JACS 77 (1955)	4613
$C_{14}H_9NO_3$	N-(4-Hydroxy-1-naphthyl) isomaleimide	2-15 μ	Sol	Freq	Tsou	JACS 77 (1955)	4613
$C_{14}H_9NO_3$	N-(5-Hydroxy-1-naphthyl) maleimide	2-15 μ	Sol	Freq	Tsou	JACS 77 (1955)	4613
$C_{14}H_9NO_4$	1,2-Dihydroxy-3-aminoanthraquinone	-	-	Freq	Johnson	JCS - (1952)	2672
$C_{14}H_9NO_4$	1,2-Dihydroxy-4-aminoanthraquinone	-	-	Freq	Johnson	JCS - (1952)	2672
$C_{14}H_9NO_5$	1,4,5-Trihydroxy-8-aminoanthraquinone	-	-	Freq	Johnson	JCS - (1952)	2672
$C_{14}H_9NO_5$	Benzoyl m-nitrobenzoyl peroxide	-	Sol	Group freq	Davies	JCS - (1951)	2456

$C_{14}H_9NO_6$	Benzoyl p-nitrobenzoyl peroxide	-	Sol	Group freq	Davison	JCS	-	(1951)	2456
$C_{14}H_{10}$	Anthracene	0.8-3.8 μ 3.2-3.4 μ 670-3150 650-2040 787	Sol Sol S S,Sol S	Spec Band study Spec, Freq Spec Spec Spec Spec Vib. Anal Spec, Ident IR Freq	Taylor Wall Orr Cannon Pimental Bender Tyler Sidman Resnik Buu-hoi Fialkovskaya	JACS JACS JCS SA JCP JACS AC JCP AC BSCF IANS	46 62 - 4 19 74 25 25 29 - 22	(1924) (1940) (1950) (1951) (1951) (1952) (1953) (1956) (1957) (1958) (1958)	1606 2225 218 373 1536 1450 390 115 1874 1404 1093
$C_{14}H_{10}$	Diphenylacetylene	10-100 3000	S L	Freq Spec	Fialkovskaya Perkampus	IANS ZE	23 64	(1959) (1960)	62 951
$C_{14}H_{10}$	Phenanthrene	1050-1800 3.2-3.5 μ 660-2040 3-14.5 μ - -	- Sol S,Sol S,Sol - S,L, Sol,G	Spec CH band study Spec Spec Ident Freq	Mann Richards Mann Rabinovitch Katritzky Barnes Wall Cannon Mosby Entel Fialkovskaya	PRS PRS PRS JACS JCS	192 195 211 75 -	(1948) (1948) (1952) (1953) (1958)	489 1 168 2652 4155
$C_{14}H_{10}BrClO$	α -Bromo-p-chlorobenzyl phenyl ketone	10-100 μ	S	Freq	Fialkovskaya	IANS	23	(1959)	62
$C_{14}H_{10}Br_2$	cis-1-p-Bromophenyl-1-phenyl-2-bromoethylene-1-14C	10-15 μ	-	Group freq	House	JACS	77	(1955)	3070
				Spec	Bothner	JACS	77	(1955)	3293

$C_{14}H_{10}Br_2$	trans-1-p-Bromophenyl-1-phenyl-2-bromoethylene-1-14 _C	10-15	-	Spec	Bothner	JACS	77 (1955)	3293
$C_{14}H_{10}Cl_2O_4$	2,3-Dichloro-5-phenyl-cyclohexa-1,3-diene-1,4-dicarboxylic acid	-	-	Band freq	Burnell	JCS	- (1954)	3636
$C_{14}H_{10}Cl_4$	1-(o-Chlorophenyl)-1-(p-chlorophenyl)-2,2'-dichloroethane	650-1400	Sol	Quant anal	McDonald	AC	29 (1957)	339
$C_{14}H_{10}Cl_4$	1,1-Dichloro-2,2-bis(p-chlorophenyl)ethane	7-15 650-1400	Sol Sol	Spec Quant anal	Dowing McDonald	IEC AC	18 (1946) 29 (1957)	461 339
$C_{14}H_{10}Cl_4O_2$	2,3,5,6-Tetrachloro-4-p-methylbenzyloxyphenol	-	-	Group study	Moore	JCS	- (1953)	3405
$C_{14}H_{10}F_6N_2$	2,4'-Diamine-4,2'-bistrifluoromethyl-diphenyl	-	-	Freq	Randle	JCS	- (1955)	1311
$C_{14}H_{10}I_2O_2$	Benzil-iodine	-	Sol	Association	Glusker	JCS	- (1955)	471
$C_{14}H_{10}N_2O_2$	3,5-Diphenyl-1,2,4-oxadiazole	-	Sol	Ident	Teress	JACS	76 (1954)	580
$C_{14}H_{10}N_2O$	Phenylbenzoyldiazomethane	-	-	Reactant Band freq	Marvel Lefevre	JOC JCS	16 (1951) - (1954)	741 4686
$C_{14}H_{10}N_2O_2$	1,4-Diaminoanthraquinone	1610	S	Group freq	Fiett	JCS	- (1948)	1441
$C_{14}H_{10}N_2O_5$	Polystictin	670-3600	S	Spec, Group freq	Cavill	JCS	- (1953)	525

$C_{14}H_{10}N_4O_6$	3-10 μ	S	Spec, Iso	Hayashi	N	178 (1956)	40
2,4-Dinitrophenyl-hydrazone of benzoylformic acid (cis)	3-10 μ	S	Spec, Iso	Hayashi	N	178 (1956)	40
$C_{14}H_{10}N_4O_6$	3-10 μ	S	Spec, Iso	Hayashi	N	178 (1956)	40
2,4-Dinitrophenylhydrazone of benzoylformic acid (trans)	3-10 μ	S	Spec, Iso	Hayashi	N	178 (1956)	40
$C_{14}H_{10}N_4O_8$	6-15 μ	S	Spec	Ross	AC	25 (1953)	1288
Glyoxal di-2,4-dinitrophenylhydrazone	6-15 μ	S	Spec	Ross	AC	25 (1953)	1288
Anthrone	1654 1600-1800	S Sol	Group freq Group freq	Flett Josien	JOS JOP	- 21 (1953)	1441 331
2-Hydroxyanthracene	3	Sol	Freq, H bond	Flett	SA	10 (1958)	21
1-Hydroxyphenanthrene	3	Sol	Freq, H bond	Flett	SA	10 (1958)	21
2-Hydroxyphenanthrene	3	Sol	Freq, H bond	Flett	SA	10 (1958)	21
3-Hydroxyphenanthrene	3	Sol	Freq, H bond	Flett	SA	10 (1958)	21
1-Methylfluorenone	-	-	Ident	Mulholland	JOS	- (1954)	4676
3-Methylfluorenone	-	-	Ident, Anal	Relyea	JACS	76 (1954)	1202
9-Phenanthrol	970-3500	S, Sol	Spec, Freq	Hunsberger	JACS	74 (1952)	4839
1-Acetyldibenzothiophene	-	-	Iso	Sawicki	JACS	77 (1955)	957
3-Acetyldibenzothiophene	-	-	Iso	Sawicki	JACS	77 (1955)	957
1-Acetyldibenzoselenophene	-	-	Iso	Sawicki	JACS	77 (1955)	957
3-Acetyldibenzoselenophene	-	-	Iso	Sawicki	JACS	77 (1955)	957
Benzil	2.7-3.9 μ 700-1700	Sol S	Spec, H bond Spec Freq, Struct	Wall Mann Rasmussen	JACS PRS JACS	61 (1939) 192 (1948) 71 (1949)	2812 489 1068

$C_{14}H_{10}O_2$	o-Carboxybenzhydrol lactone	600-4000 Sol	Spec, Freq	Curtin	JOC 19 (1954)	352
$C_{14}H_{10}O_2$	1-Fluorene-carboxylic acid	5.5-6.5 μ Sol	Ident	Sawicki	AC 31 (1959)	523
$C_{14}H_{10}O_2$	4-Fluorene-carboxylic acid	5.5-6.5 μ Sol	Ident	Sawicki	AC 31 (1959)	523
$C_{14}H_{10}O_2$	9-Fluorene-carboxylic acid	5.5-6.5 μ Sol	Ident	Sawicki	AC 31 (1959)	523
$C_{14}H_{10}O_2$	1-Hydroxyanthrone	1633 S	Group freq	Flett	JCS - (1948)	1441
$C_{14}H_{10}O_2$	4-Hydroxyanthrone	1645 S	Group freq	Flett	JCS - (1948)	414
$C_{14}H_{10}O_2$	4-Methoxy-1-benzona- phthenone	1600-1800 Sol	Group freq	Josien	JCP 21 (1953)	331
$C_{14}H_{10}O_2$	2-Methylxanthone	- S	Group freq	Newman	JOC 19 (1954)	996
$C_{14}H_{10}O_2$	4-(1-Naphthyl)-2- butynoic acid	2.5-15 μ Sol	Spec, Struct, Freq	Doukas	JOC 19 (1954)	343
$C_{14}H_{10}O_2$	Oxanthrone	1600-3650 S,Sol	Group freq	Flett	JCS - (1948)	1441
$C_{14}H_{10}O_2S$	Dibenzoyl sulfide	2.5-16 μ Sol	Struct, Freq	Nyquist	SA 15 (1959)	514
$C_{14}H_{10}O_2S$	Methyl fluorenone-1- sulfenate	5-8 μ Sol	Struct	Bruice	JACS 81 (1959)	3416
$C_{14}H_{10}O_2S_2$	Diphenyldithio oxalate	2.5-16 μ Sol	Struct	Nyquist	SA 15 (1959)	514
$C_{14}H_{10}O_3$	Benzoic anhydride	1720-1810 - 2-15 μ Sol 12-15 μ S	Spec Spec, Freq CH out of plane study	Davison Lanning Kross	JCS - (1951) JOC 19 (1954) JACS 78 (1956)	2456 1171 1332

Roberts
Blount
Mann
Bellamy
Hightet

Spec, Anal
Comparison
Spec,
Freq
Ident

2-16 μ
650-1750 Sol
700-3400 S
650-1740 Sol
-

JACS 73 (1951)
JOSA 42 (1952)
PRS 211 (1952)
JCS - (1955)
JACS 77 (1955)

618
966
168
4221
4399

$C_{14}H_{10}O_3$	2-Benzoylbenzoic acid	5.5-6.5 μ	Sol	Ident	Sawicki	AC 31 (1959)	523
$C_{14}H_{10}O_3$	Disalicylaldehyde	-	-	Group freq	Newman	JOC 19 (1954)	985
$C_{14}H_{10}O_3$	3-Ethyl-naphthalene-1,2-dicarboxylic acid anhydride	3-12 μ	Sol	Spec	Modest	JACS 72 (1950)	577
• $C_{14}H_{10}O_4$	Benzoyl peroxide	850-1950	Sol	Spec	Barnes	IEC 15 (1943)	659
		-	Sol	Freq	Davison	JCS - (1951)	2456
		2-15 μ	Sol	Spec, Struct	Shreve	AC 23 (1951)	282
		-	-	Freq, Hammett const	Rao	CS 26 (1957)	375
$C_{14}H_{10}O_4$	Diphenic acid	700-4000	S, L, Sol	Freq, Ext coefficient	Flett	JCS - (1951)	962
$C_{14}H_{10}O_4$	Diphenyl oxalate	5.5-6.5 μ	Sol	Ident	Sawicki	AC 31 (1959)	523
$C_{14}H_{10}O_4S$	2,2'-Dicarboxydiphenyl sulfide	1700-1800	S, Sol	Freq	Simon	JOC 23 (1958)	1078
$C_{14}H_{10}O_6$	2,3-Dihydro-5,8,9,10-tetrahydroxy-1,4-anthraquinone	-	-	Ident	Gilman	JACS 77 (1955)	3387
$C_{14}H_{11}D$	9-Methylfluorene-9-d ₁	700-1400	Sol	Spec	Scherf	CJC 38 (1960)	697
$C_{14}H_{11}D$	trans-Stilbene- α -d ₁	600-4000	Sol	Spec	Curtin	JACS 75 (1953)	6011
$C_{14}H_{11}Br$	2-Bromostilbene	2-15 μ	Sol, L	Spec, Assign	Detar	JACS 78 (1956)	475
$C_{14}H_{11}Br$	4-Bromostilbene	5-15 μ	S	Spec, Freq	Thompson	JCS - (1950)	214
$C_{14}H_{11}BrN_4$	5-Amino-1-p-bromophenyl-4-phenyl-1,2,3-triazole	900-1310	S	Assign	Lieber	CJC 36 (1958)	1441
$C_{14}H_{11}BrN_4O_4$	α -Bromoacetophenone anti-2,4-dinitrophenylhydrazine	-	Sol	Band freq	Ramirez	JACS 75 (1953)	6026

$C_{14}H_{11}BrN_2O_4$	α -Bromoacetophenone syn-2,4-dinitrophenylhydrazine	-	Sol	Band freq	Ramirez	JACS 75 (1953)	6026
$C_{14}H_{11}BrO$	2-Bromo-4-methylbenzophenone	-	Sol	Anal	Relyea	JACS 76 (1954)	1202
$C_{14}H_{11}BrO$	2'-Bromo-4-methylbenzophenone	-	Sol	Anal	Relyea	JACS 76 (1954)	1202
$C_{14}H_{11}BrOS$	Benzylthio p-bromobenzoate	2.5-16 μ	Sol	Struct, Freq	Nyquist	SA 15 (1959)	514
$C_{14}H_{11}Cl$	2-Chlorostilbene (cis & trans)	2-15 μ	-	Spec, Assign	Detar	JACS 78 (1956)	475
$C_{14}H_{11}Cl$	cis-2-Chlorostilbene	-	-	Ident	Detar	JACS 77 (1955)	4410
$C_{14}H_{11}Cl$	trans-2-Chlorostilbene	-	-	Ident	Detar	JACS 77 (1955)	4410
$C_{14}H_{11}Cl$	trans-p-Chlorostilbene	-	-	Freq	House	JACS 77 (1955)	3070
$C_{14}H_{11}ClO$	Benzyl 4-chlorophenyl ketone	-	Sol	Reference	Curtin	JACS 76 (1954)	3719
$C_{14}H_{11}ClO$	p-Chlorobenzyl phenyl ketone	-	Sol	Reference	Curtin	JACS 76 (1954)	3719
$C_{14}H_{11}ClO$	2-Chloro-4-methylbenzophenone	-	Sol	Anal	Relyea	JACS 76 (1954)	1202
$C_{14}H_{11}ClO$	2'-Chloro-4-methylbenzophenone	-	Sol	Analysis	Relyea	JACS 76 (1954)	1202
$C_{14}H_{11}ClO$	4-Chloro-4'-methylbenzophenone	1600-1800	Sol	Group freq	Fuson	JACS 76 (1954)	2526
$C_{14}H_{11}ClOS$	Benzylthio m-chloro-	2.5-16 μ	Sol	Struct, Freq	Nyquist	SA 15 (1959)	514

C ₁₄ H ₁₁ ClO ₆	3-(4-Chloro-7-methoxy-3-methylphthalidyl) succinic anhydride	-	-	Ident	Boothe	JACS 75 (1953)	3263
C ₁₄ H ₁₁ Cl ₂ N	2,3-bis-(4'-Chloro-phenyl) ethylenimine	2.5-12 μ	Sol	Spec, Freq, Struct	Hatch	JACS 75 (1953)	38
C ₁₄ H ₁₁ FOS	Benzylthio o-fluorobenzoate	2.5-16 μ	Sol	Struct, Freq	Nyquist	SA 15 (1959)	514
C ₁₄ H ₁₁ F ₃ O	Diphenyl(trifluoromethyl) carbinol	-	-	Group freq	Kaluszyner	JACS 77 (1955)	4164
C ₁₄ H ₁₁ F ₄ M ₂ B	2-Diazostilbene boron tetrafluoride	2-15 μ	L,Sol	Assign, Spec	Detar	JACS 78 (1956)	475
C ₁₄ H ₁₁ IO	2'-Iodo-4-methylbenzophenone	-	Sol	Analysis	Relyea	JACS 76 (1954)	1202
C ₁₄ H ₁₁ IOS	Benzylthio m-iodobenzoate	2.5-16 μ	Sol	Struct, Freq	Nyquist	SA 15 (1959)	514
C ₁₄ H ₁₁ IOS	Benzylthio o-iodobenzoate	2.5-16 μ	Sol	Freq, Struct	Nyquist	SA 15 (1959)	514
C ₁₄ H ₁₁ N	1-Aminoanthracene	-	Sol	Freq, FC, H bond	Short	JCS - (1952)	4584
C ₁₄ H ₁₁ N	2-Aminoanthracene	-	Sol	Freq, FC, H bond	Short	JCS - (1952)	4584
C ₁₄ H ₁₁ N	9-Aminoanthracene	-	Sol	Freq, FC, H bond	Short	JCS - (1952)	4584
C ₁₄ H ₁₁ N	Diphenylacetoneitrile	-	Sol	Freq, I	Skinner	JCS - (1955)	487
C ₁₄ H ₁₁ N	p-Methylphenylethynylpyridine	2200-2300	Sol	Freq, Struct	Jesson	SA 13 (1958)	217
C ₁₄ H ₁₁ N	p-Methylphenylethynylpyridine	700-1700	Sol	Freq, Assign	Katritzky	JCS - (1959)	2051
C ₁₄ H ₁₁ N	1-Phenanthrylamine	3 μ	Sol	Freq, FC	Elliot	JCS - (1959)	1275

$C_{14}H_{11}N$	2-Phenanthrylamine	3μ	Sol	Freq, FC	Elliot	JCS - (1959)	1275
$C_{14}H_{11}N$	3-Phenanthrylamine	3μ	Sol	Freq, FC	Elliot	JCS - (1959)	1275
$C_{14}H_{11}N$	9-Phenanthrylamine	3μ	Sol	Freq, FC	Elliot	JCS - (1959)	1275
$C_{14}H_{11}N$	2-Phenylindole	3480	Sol	Freq	Pozefsky	AC 27 (1955)	1466
		-	Sol	Freq, I	Russell	JCS - (1955)	483
$C_{14}H_{11}N$	N-Vinyl-9-azafluorene	-	Sol	Spec, Freq	Potts	SA 15 (1959)	679
$C_{14}H_{11}NO$	1-Aminanthrone	1614-3440	S	Group freq	Flett	JCS - (1948)	1441
$C_{14}H_{11}NO$	4-Aminanthrone	1645-3320	S	Group freq	Flett	JCS - (1948)	1441
$C_{14}H_{11}NO$	5-Hydroxy-4-methyl-acridine	1400-3650	S,Sol	Spec, Assign	Mason	JCS - (1957)	4874
$C_{14}H_{11}NO$	5-Hydroxy-2-methyl benzo [g] quinoline	-	S,Sol	Freq, Tant	Mason	JCS - (1957)	4874
$C_{14}H_{11}NO$	p-Methoxyphenylethylpyridine	700-1700	Sol	Freq, Assign, I	Katritzky	JCS - (1959)	2051
$C_{14}H_{11}NO$	N-methylacridone (II)	2800-3000	S	Group detection	Braunholtz	JCS - (1958)	2780
$C_{14}H_{11}NO$	10-Methylacridone	6.11-7.89 μ	S	Table	Acheson	JCS - (1954)	3742
$C_{14}H_{11}NO$	7-Phenylloxindole	-	-	Group freq	Wiesner	JACS 77 (1955)	675
$C_{14}H_{11}NO_2$	2-Aminofluorene-9-carboxylic acid	700-4000	S,L	Freq	Flett	JCS - (1951)	962
$C_{14}H_{11}NO_2$	α -Benzil monoxime	6800-7200	-	Spec, H bond	Hilbert	JACS 58 (1936)	548
		7000	-	Absorption band	Wulf	JCP 6 (1938)	702
		2800-3700	Sol	Spec, H bond	Buswell	JACS 61 (1939)	3252
		650-1740	Sol	Freq	Bellamy	JCS - (1955)	4221

$C_{14}H_{11}NO_2$	3μ	Sol	Freq, H bond	Flett	SA	10 (1958)	21
β -Benzil monoxime	6800-7200	Sol	Spec, H bond	Hilbert	JACS	58 (1936)	548
2-Nitrostilbene	2-15 μ	L,Sol	Assign, Spec	Detar	JACS	78 (1956)	475
4-Nitrostilbene	5-15 μ	S	Spec, Band freq	Thompson	JCS	- (1950)	214
N-Benzoxylbenzamide	-	-	Freq	Freeman	JACS	80 (1958)	5954
O-Benzoyl benzhydroxamate	700-4000	S,Sol	Spec, H bond	Hadzi	SA	10 (1958)	38
N-(1-Naphthyl)maleamic acid	2-15 μ	S,Sol	Freq	Tsou	JACS	77 (1955)	4613
o-(3-Amino-4-hydroxybenzoyl)benzoic acid	700-4000	S,L	Group freq	Flett	JCS	- (1951)	962
N-(4-Hydroxy-1-naphthyl)maleamic acid	2-15 μ	S	Freq	Tsou	JACS	77 (1955)	4613
N-(5-Hydroxy-1-naphthyl)maleamic acid	2-15 μ	S	Freq	Tsou	JACS	77 (1955)	4613
N-Methylthioacridone	-	Sol	Freq	Bergmann	JACS	77 (1955)	1549
3,5-Diphenyl-1,2,4-triazole	-	-	Group freq	Potts	JCS	- (1954)	3461
m-Nitrophenylhydrazone of benzoylformic acid (cis)	3-10 μ	S	Spec, Iso	Hayashi	N	178 (1956)	40
m-Nitrophenylhydrazone of benzoylformic acid (trans)	3-10 μ	S	Spec, Iso	Hayashi	N	178 (1956)	40

$C_{14}H_{11}N_3O_4$	O-Nitrophenylhydrazone of benzoylformic acid (cis)	3-10	-	Spec, Iso	Hayashi	N	178 (1956)	40
$C_{14}H_{11}N_3O_4$	O-Nitrophenylhydrazone of benzoylformic acid (trans)	3-10	-	Spec, Iso	Hayashi	N	178 (1956)	40
$C_{14}H_{11}N_3O_4$	p-Nitrophenylhydrazone of benzoylformic acid (cis)	3-10	S	Spec, Iso	Hayashi	N	178 (1956)	40
$C_{14}H_{11}N_3O_4$	p-Nitrophenylhydrazone of benzoylformic acid (trans)	3010	S	Spec, Iso	Hayashi	N	178 (1956)	40
$C_{14}H_{11}N_5O_4$	1,5-DI-(p-nitrophenyl) 1,2,3-triazoline	-	-	Ident	Buckley	JCS	- (1954)	1850
$C_{14}H_{12}$	9,10-Dihydroacanthracene	670-3150	S	Spec, Freq	Orr	JCS	- (1950)	218
$C_{14}H_{12}$	9,10-Dihydrophenanthrene	3.2-3.5 650-2020	Sol L	Band study Spec	Wall Cannon	JACS SA	62 (1940) 4 (1951)	2225 373
$C_{14}H_{12}$	9-Methylfluorene	700-1400	Sol	Spec	Scherf	CJC	38 (1960)	697
$C_{14}H_{12}$	8-Methylperinaphthene	7.5-14	L	Spec	Boekelheide	JACS	72 (1950)	1240
$C_{14}H_{12}$	Phenylcyclooctatetraene	2-16	L	Spec	Cope	JACS	73 (1951)	3424
$C_{14}H_{12}$	Stilbene	1100-1700 700-3100 5-15 650-2020 -	- L,S S S Sol	Spec, Freq Spec Spec Spec Anal Freq	Barnes Richards Thompson Cannon Bailey Katritzky	IEC PRS JCS SA JACS JCS	15 (1943) 195 (1948) - (1950) 4 (1951) 75 (1953) - (1958)	659 1 214 373 2951 4155
$C_{14}H_{12}$	Stilbene (cis & trans)	2-16 200-1600	L,Sol S,Sol	Assign, Spec Assign	Detar Brodin	JACS OS	78 (1956) 5 (1958)	475 123
$C_{14}H_{12}$	cis-Stilbene	680-1650 - -	L Sol Sol	Spec Anal IR, Ozonation study	Brackman Rabinovitch Briner	JCS JACS HCA	- (1952) 75 (1953) 41 (1958)	2188 2652 1390

$C_{14}H_{12}$	trans-Stilbene	687-1935 600-4000	- Sol Sol	Table Spec Anal	Brackman Curtin Rabinovitch	JCS JACS JACS	- 75 75	(1952) (1953) (1953)	2188 6011 2652
		625-900 12-15 μ 960	- S Sol	Substitution effect Freq Vib	Margoshes Kross Orr	SA JACS SA	7 78 8	(1955) (1956) (1956)	14 1332 218
		-	Sol Sol	IR	Briner	HCA	41	(1958)	1390
		-	Sol	Freq, Spec	Potts	SA	15	(1959)	679
$C_{14}H_{12}BrClO$	Erythro-2-bromo-2-(4-chlorophenyl)-1-phenylethanol	-	-	Freq	House	JACS	77	(1955)	3070
$C_{14}H_{12}BrClO$	Erythro-2-bromo-2-(4-chlorophenyl)-2-phenylethanol	-	-	Freq	House	JACS	77	(1955)	3070
$C_{14}H_{12}BrClO$	Threo-2-bromo-2-(4-chlorophenyl)-1-phenylethanol	-	-	Freq	House	JACS	77	(1955)	3070
$C_{14}H_{12}BrNO_2$	4,5,6,7-Tetrahydro-1-(p-bromophenyl)isatin	900-4000	S,Sol	Freq	O'Sullivan	JCS	-	(1959)	876
$C_{14}H_{12}ClNO_2$	2-Chloro-4-(2'-dimethylamino)vinyl-1,4-naphthaquinone	-	Sol	Absorption	Buckley	JCS	-	(1957)	4891
$C_{14}H_{12}ClNO_2$	4,5,6,7-Tetrahydro-1-(m-chlorophenyl)isatin	900-4000	S,Sol	Freq	O'Sullivan	JCS	-	(1959)	876
$C_{14}H_{12}ClNO_2$	4,5,6,7-Tetrahydro-1-(p-chlorophenyl)isatin	900-4000	S,Sol	Freq	O'Sullivan	JCS	-	(1959)	876
$C_{14}H_{12}ClNO_2S$	3-Chloro-10-ethylphenothiazine-5-dioxide	-	-	Substitution effect	Gilman	JOC	19	(1954)	560
$C_{14}H_{12}ClNO_3$	2-Chloro-3-morpholino-1,4-naphthaquinone	-	Sol	Absorption	Buckley	JCS	-	(1957)	4891

$C_{14}H_{12}Cl_2$	3,3'-Dimethyl-5,5'-dichlorobiphenyl	-	-	Spec	Adams	JACS 74 (1952)	3038
$C_{14}H_{12}Cl_2N_2O$	4,4'-Dichloro-cis- ω -azoxytoluene	-	S	Group study	Brough	JCS - (1954)	4069
$C_{14}H_{12}Cl_2N_2O$	4,4'-Dichloro-trans- ω -azoxytoluene	-	S	Group study	Brough	JCS - (1954)	4069
$C_{14}H_{12}F_{14}O_4$	bis-2,2,3,3,4,4,4-Heptafluorobutyl adipate	-	L	Group freq	Rappaport	JACS 75 (1953)	2695
$C_{14}H_{12}F_{14}O_4$	1,6-Hexanediol bis-heptafluorobutyrate	-	L	Group freq	Rappaport	JACS 75 (1953)	2695
$C_{14}H_{12}N_2$	5-Amino-1-methylacridine	3μ	Sol	I, Taut, Band study	Mason	JCS - (1959)	1281
$C_{14}H_{12}N_2$	2-Amino-4-methyl-5,6-benzoquinoline	3μ	Sol	I, Taut, Band study	Mason	JCS - (1959)	1281
$C_{14}H_{12}N_2$	2-Amino-9-methylphenanthridine	3μ	S	Freq, I	Mason	JCS - (1959)	1281
$C_{14}H_{12}N_2$	Diphenylaminomethyl-nitrile	2200-2300	Sol	Freq, Struct	Jesson	SA 13 (1958)	217
$C_{14}H_{12}N_2$	5-Imino-10-methylacridan	$3.02-7.90\mu$	S	Table	Acheson	JCS - (1954)	3742
$C_{14}H_{12}N_2$	5-Methylaminoacridine	3μ	Sol	Freq, I	Mason	JCS - (1959)	1281
$C_{14}H_{12}N_2O$	Benzil monohydrazone	-	-	Spec, Config	Domnin	ZOK 30 (1960)	799
$C_{14}H_{12}N_2O$	α -Phenylglyoxal mono-phenylhydrazone	650-4000	S,Sol	H bond, Freq	Tanner	SA 15 (1959)	20
$C_{14}H_{12}N_2O$	β -Phenylglyoxal mono-phenylhydrazone	650-4000	S,Sol	H bond, Freq	Tanner	SA 15 (1959)	20
$C_{14}H_{12}N_2O$	5-Carbomethoxyharmane	1490-3670	Sol	Spec, Struc, Freq	Elderfield	JOC 16 (1951)	506

$C_{14}H_{12}N_2O_2$	Disalial hydrazone	3μ	Sol	Freq, H bond	Flett	SA	10 (1958)	21
$C_{14}H_{12}N_2O_2$	3- α -Furylaacroleinazine	1400-2000	S, Sol	Spec	Blout	JACS	70 (1948)	194
$C_{14}H_{12}N_2O_2$	Phenylhydrazone of benzoylformic acid	5-10 μ	S	Spec	Hayashi	N	178 (1956)	40
$C_{14}H_{12}N_2O_2S_2$	Di-p-carbamylphenyl disulphide	5.5-24 μ	S	Spec, Freq	Cyerman	JCS	- (1951)	1332
$C_{14}H_{12}N_2O_3$	N-Benzoyl-O-anthranoyl-hydrxylamine	-	S	Freq	Freeman	JACS	80 (1958)	5954
$C_{14}H_{12}N_2O_4$	4,5,6,7-Tetrahydro-1-(m-nitrophenyl)isatin	-	Sol	Freq	O'Sullivan	JCS	- (1959)	876
$C_{14}H_{12}N_2O_4S_2$	Di-(p-carbamyl)phenyl benzenethiol sulfonate	5.5-24 μ 7-9	S	Spec, Freq Assign	Cyerman Hazelidine	JCS	- (1951) - (1955)	1332 2901
$C_{14}H_{12}N_2O_6S$	p-Tolyl 2,4-dinitrobenzyl sulfone	1100-1400	S	Spec, Freq	Bavin	SA	16 (1960)	1312
$C_{14}H_{12}N_2S$	2-p-Aminophenyl-6-methyl-benzothiazole	800-2000 693-3460	S	Spec I, Assign	Barnes Aroney	IEC JCS	15 (1943) - (1955)	659 2138
$C_{14}H_{12}N_2S.HCl$	2-p-Aminophenyl-6-methyl-benzothiazole hydrochloride	963-3460	S	I, Assign	Aroney	JCS	- (1955)	2138
$C_{14}H_{12}N_2S$	2-(β -4-Pyridylethyl) benzothiazole	-	Sol	Struct	Porter	JACS	76 (1954)	127
$C_{14}H_{12}N_4$	5-Amino-1,4-diphenyl-1,2,3-triazole	900-1310	S	Vib, I, Assign	Lieber	CJC	36 (1958)	1441
$C_{14}H_{12}N_4O_4$	Acetophenone-2,4-dinitro-phenylhydrazone	- 6-15 μ	- S	Band freq Spec	Ramirez Ross	JACS AC	75 (1953) 25 (1953)	6026 1288
$C_{14}H_{12}N_4O_4$	Phenylacetaldehyde-2,4-dinitrophenylhydrazone	2-15 μ	S	Spec, Ident	Jones	AC	28 (1956)	191

$C_{14}H_{12}N_4O_5$	4-(2-Furyl)-3-buten-2-ene-2,4-dinitrophenyl-hydrazone	2-15 μ	S	Spec, Ident	Jones	AC	28 (1956)	191
$C_{14}H_{12}N_4O_5$	p-Methoxybenzaldehyde 2,4-dinitrophenyl-hydrazone	2-15 μ	S	Spec, Ident	Jones	AC	28 (1956)	191
$C_{14}H_{12}N_6O_3$	Pterotic acid	750-3800	-	Spec	Waller	JACS	70 (1948)	19
$C_{14}H_{12}O$	9,10-Dihydro-9-phenanthrol	2.75-2.90 μ	Sol	Freq, H bond	Moriconi	JACS	81 (1959)	6472
$C_{14}H_{12}O$	p-Methylbenzophenone	1650-1800	Sol	Group ext. coefficient	Cross	TFS	47 (1951)	354
		1600-1800	Sol	Group freq	Fuson	JACS	76 (1954)	2526
		1700	Sol	Freq, I	Thompson	SA	9 (1957)	208
$C_{14}H_{12}O$	ω -Phenylacetophenone	3-10 μ	-	Spec	Taschek	JCP	7 (1939)	11
		-	Sol	I, Substitution effect	Jones	CJC	36 (1958)	1020
$C_{14}H_{12}O$	p-Phenylacetophenone	1689	Sol	Freq, I	Tanaka	JCP	24 (1956)	311
$C_{14}H_{12}OS$	Benzylthio benzoate	2.5-16 μ	Sol	Struct, Freq	Nyquist	SA	15 (1959)	514
$C_{14}H_{12}O_2$	4-Acetyl-3-hydroxy-biphenyl	800-2900	Sol	Spec, Freq	Lacey	JCS	- (1960)	3153
$C_{14}H_{12}O_2$	Benzoin	6500-7200	Sol	Spec, Anal	Wulf	JACS	57 (1935)	1464
		-	Sol	Spec, Struct	Pauling	JACS	58 (1936)	94
		2700-3700	Sol	Spec, H bond	Buswell	JACS	61 (1939)	3252
		2.6-3 μ	Sol	Spec	Davies	TFS	36 (1940)	333
		2-16 μ	-	Spec, Anal	Roberts	JACS	73 (1951)	618
		-	-	Ident	Fuson	JOC	19 (1954)	1575
		650-1740	Sol	Freq	Bellamy	JCS	- (1955)	4221
		3 μ	Sol	Freq, H bond	Flett	SA	10 (1958)	21
$C_{14}H_{12}O_2$	Benzyl benzoate	1740	Sol	Freq	Hampton	AC	21 (1949)	914
		2-16 μ	Sol	Spec, Anal	Sassaman	APS	8 (1954)	67
		-	Sol	Qual. anal, Spec	Black	AC	29 (1957)	169

$C_{14}H_{12}O_2$		Sol	Freq	Freeman	JACS	(1960)	2454
p-Biphenyl acetate	-	Sol	Freq	Freeman	JACS	82	(1960) 2454
trans-1,2-dihydroxy-dihydroanthracene	3 μ	Sol	Band freq	Kuhn	JACS	74	(1952) 2492
cis-9,10-Dihydroxy-dihydrophenanthrene	3 μ 3 μ	Sol	Band freq H bond	Kuhn Moriconi	JACS JOC	74 22	(1952) 2492 (1957) 1651
trans-9,10-Dihydroxy-dihydrophenanthrene	3 μ 3 μ	Sol	Band freq H bond	Kuhn Moriconi	JACS JOC	74 22	(1952) 2492 (1957) 1651
Diphenylacetic acid	700-4000	S,L Sol	Freq Freq	Flett Goulden	JCS SA	- 6	(1951) 962 (1954) 129
2-Hydroxy-5-methyl-diphenyl ketone	-	Sol S,Sol	H bond Group freq	Hilbert Newman	JACS JOC	58 19	(1936) 548 (1954) 985
Isomycomycin methyl ester	2-16 μ 9-11 μ	Sol Sol	Spec, Freq Spec, Freq, Struct	Celmer Celmer	JACS JACS	74 75	(1952) 3838 (1953) 1372
O-Methoxybenzophenone	-	-	Ident	Detar	JACS	75	(1953) 5117
p-Methoxybenzophenone	-	Sol	Freq, Anal	Newman	JACS	75	(1953) 2322
Methyl m-phenylbenzoate	1600-1800	Sol	Group freq	Fuson	JACS	76	(1954) 2526
Methyl o-phenylbenzoate	-	-	Anal, Iso	Dannley	JACS	76	(1954) 445
Methyl p-phenylbenzoate	-	-	Anal, Iso	Dannley	JACS	76	(1954) 2997
Methyl m-phenylbenzoate	-	-	Anal	Dannley	JACS	77	(1955) 1588
Methyl p-phenylbenzoate	-	-	Anal, Iso	Dannley	JACS	76	(1954) 445
Methyl o-phenylbenzoate	-	-	Anal, Iso	Dannley	JACS	76	(1954) 2997
Methyl m-phenylbenzoate	-	-	Anal	Dannley	JACS	77	(1955) 1588
Methyl p-phenylbenzoate	-	-	Anal, Iso	Dannley	JACS	76	(1954) 445
Methyl o-phenylbenzoate	-	-	Anal, Iso	Dannley	JACS	76	(1954) 2997
Methyl m-phenylbenzoate	-	-	Ident	Stevens	JACS	76	(1954) 715
Methyl p-phenylbenzoate	-	-	Anal	Dannley	JACS	77	(1955) 1588
Mycomycin methyl ester	2-16 μ	Sol	Spec, Freq, Struct	Celmer	JACS	75	(1953) 1372

$C_{14}H_{12}O_2$	4-(1-Naphthyl)-2-butenic acid	2-15 μ	S	Spec	Doukas	JOC	19 (1954)	343
$C_{14}H_{12}O_2S$	9-Fluorenyl methyl sulfone	1100-1400	Sol	Spec, Freq	Bavin	SA	16 (1960)	1312
$C_{14}H_{12}O_2S$	Phenylthio o-methoxybenzoate	2.5-16 μ	Sol	Struct, Freq	Nyquist	SA	15 (1959)	514
$C_{14}H_{12}O_3$	Desmethoxyyangonine	2-12 μ	Sol	Struct	Chmielewska	TE	4 (1958)	36
$C_{14}H_{12}O_3$	6-Phenylpiperonyl alcohol	718-1477	Sol	Group freq	Briggs	AC	29 (1957)	904
$C_{14}H_{12}O_4$	Benzoic acid(dimer)	-	-	Freq related to Hammett const	Rao	CS	26 (1957)	375
$C_{14}H_{12}O_4$	Methylenedioxybenzene (dimer)	2-12 μ	Sol	Spec	Gensler	JOC	18 (1953)	9
$C_{14}H_{12}O_5$	Khellin	8-10 μ	Sol	Spec	Williams	IL	3 (1952)	7
$C_{14}H_{13}O$	dl-Erythro-1,2-diphenylethanol-2-d ₁	-	Sol	Spec	Curtin	JACS	75 (1953)	6011
$C_{14}H_{13}O$	dl-Threo-1,2-diphenylethanol-2-d ₁	-	Sol	Spec	Curtin	JACS	75 (1953)	6011
$C_{14}H_{13}BrO$	Erythro-2-bromo-1,2-diphenylethanol	-	-	Group freq	House	JACS	77 (1955)	3070
$C_{14}H_{13}BrO$	Threo-2-bromo-1,2-diphenylethanol	-	-	Group freq	House	JACS	77 (1955)	3070
$C_{14}H_{13}BrO_4$	5-Bromo-7,8-dimethoxy-2-hydroxy-3,4-dihydro-1-naphthaleneacetic acid α -lactone	-	-	Freq	Stork	JACS	73 (1951)	4743

$C_{14}H_{13}BrO_4$	$\Delta^1(2)$, α -5-Bromo-7,8-dimethoxy-2-hydroxy-3,4-dihydro-1-naphthalene-acetic acid γ -lactone	-	-	Freq, Ident	Stork	JACS 73 (1951) 4743
$C_{14}H_{13}ClO$	p-Chlorophenylbenzylcarbinol	-	-	Freq	House	JACS 77 (1955) 3070
$C_{14}H_{13}ClO_7$	4-Chloro-7-methoxy-3-methyl-3-phthalide-succinic acid	-	-	Ident Ident Ident	Hutchings Kushner Boothe	JACS 74 (1952) 3710 JACS 74 (1952) 3710 JACS 75 (1953) 3263
$C_{14}H_{13}N$	2-Aminostilbene (trans & cis)	5-15 μ 2-15 μ	S L,Sol	Assign, Spec, Freq Spec, Assign	Thompson DeTar	JCS - (1950) 214 JACS 78 (1956) 475
$C_{14}H_{13}N \cdot HCl$	2-Aminostilbene hydrochloride	2-15 μ	L,Sol	Assign	DeTar	JACS 78 (1956) 475
$C_{14}H_{13}N$	4-Aminostilbene	5-15 μ	S	Spec, Band freq	Thompson	JCS - (1950) 214
$C_{14}H_{13}N$	N-Benzylidene-4-toluidine	-	S	Freq	Clougherty	JOC 22 (1957) 462
$C_{14}H_{13}N$	cis-2,3-Diphenylethyl-enimine	2.5-12 μ	Sol	Spec, Freq, Struct	Hatch	JACS 75 (1953) 38
$C_{14}H_{13}N$	p-Methylstyrylpyridine	700-1700	Sol	Freq, Assign, I	Katritzky	JCS - (1959) 2051
$C_{14}H_{13}NO$	Benzophenoneoxime N-methyl ether	600-1600	L,S, Sol	Freq	George	CJC 37 (1959) 679
$C_{14}H_{13}NO$	Benzophenoneoxime O-methyl ether	600-1600	L,S, Sol	Freq	George	CJC 37 (1959) 679
$C_{14}H_{13}NO$	N-Benzylidene-2-anisidine	-	Sol	Freq	Clougherty	JOC 22 (1957) 462
$C_{14}H_{13}NO$	N,N-Diphenylacetamide	1560-1760	Sol	Freq, I	Archibald	SA 12 (1958) 34
		-	Sol	Freq, I	Thompson	SA 13 (1958) 236

$C_{14}H_{13}NO$	N-(4-Methoxy)benzylidene-aniline	-	Sol	Freq	Clougherty	JOC	22 (1957)	462
$C_{14}H_{13}NO$	4-(p-Methoxystyryl)pyridine	900-3000	Sol	Freq, Assign	Katritzky	JCS	- (1959)	2062
$C_{14}H_{13}NO$	p-Methoxystyrylpyridine	700-1700	Sol	Freq, Assign, I	Katritzky	JCS	- (1959)	2051
$C_{14}H_{13}NO$	N-Methylbenzanilide	600-4000	Sol	Freq	Katritzky	JCS	- (1958)	4155
		-	Sol	Freq	Horak	TEL	3 (1959)	19
		-	Sol	Assign, I, Struct	Katritzky	JCS	- (1959)	2067
$C_{14}H_{13}NO$	o-4-Methylbenzylidene-aminophenol	3300-3400	Sol	Freq, H bond	Badger	JCS	- (1958)	3437
$C_{14}H_{13}NO$	2-(p-Methylphenacyl)pyridine	-	Sol	Spec	Branch	N	177 (1956)	671
$C_{14}H_{13}NO$	p-Methylstyrylpyridine-1-oxide	700-1700	Sol	Freq, Assing, I	Katritzky	JCS	- (1959)	2051
$C_{14}H_{13}NO$	α -Phenylacetanilide	1500-3600	S, Sol	Assign, Spec	Richards	JCS	- (1947)	1248
$C_{14}H_{13}NO$	p-Phenylacetanilide	-	Sol	Freq, I	Russell	JCS	- (1955)	483
		3 μ	Sol	Freq	Russell	SA	8 (1956)	138
		-	Sol	Freq	Freeman	JACS	82 (1960)	2454
$C_{14}H_{13}NO$	o-(1-Phenyliminoethyl)phenol	-	S	H bond	Plant	JCS	- (1955)	1278
$C_{14}H_{13}NO$	5,6,7,8-Tetrahydro-8-keto-9-methylphenanthridine	5.95-13.90 μ S		I	Smith	JCS	- (1953)	803
$C_{14}H_{13}NO_2$	N-Benzoyl-o-anisidine	-	Sol	Spec, Freq	Witkop	JACS	74 (1952)	3861
$C_{14}H_{13}NO_2$	N-Benzoyloxybenzamide	-	S	Freq	Ames	JCS	- (1955)	631
$C_{14}H_{13}NO_2$	N,N-Diacetyl-1-naphthyl-	6 μ	S, Sol	Band study	Abramovitch	JCS	- (1957)	1413

$C_{14}H_{13}NO_2$	$C_{14}H_{13}NO_2$	$C_{14}H_{13}NO_2 \cdot HCl$	$C_{14}H_{13}NO_2$	$C_{14}H_{13}NO_2$	$C_{14}H_{13}NO_2$	$C_{14}H_{13}NO_2$	$C_{14}H_{13}NO_2$	$C_{14}H_{13}NO_2$	$C_{14}H_{13}NO_2 \cdot HCl$	$C_{14}H_{13}NO_3$	$C_{14}H_{13}NO_3$
			N,N-Diacetyl-2-naphthyl-amine	6 μ	S	Band study	Abramovitch	JCS	- (1957)	1413	
			p-Hydroxybenzylidene-aminobenzyl alcohol	-	Sol	I	Witkop	JACS	76 (1954)	5589	
			p-Hydroxybenzylidene-o-aminobenzyl alcohol hydrochloride	-	Sol	I	Witkop	JACS	76 (1954)	5589	
			o-(4-Methoxybenzylidene)aminophenol	3300-3400	Sol	Freq, I, H bond	Badger	JCS	- (1958)	3437	
			2-(p-Methoxyphenacyl)pyridine	-	Sol	Spec	Branch	N	177 (1956)	671	
			4-(p-Methoxystyryl)pyridine-N-oxide	900-3000	Sol	Freq, Assign	Katritzky	JCS	- (1959)	2062	
			p-Methoxystyryl-pyridine-1-oxide	700-1700	Sol	Freq, Assign	Katritzky	JCS	- (1959)	2051	
			1-Phenyl-4,5,6,7-tetrahydroisatin	900-4000	S,Sol	Freq, H bond	O'Sullivan	JCS	- (1959)	876	
			Salicylidene-o-amino-benzyl alcohol	-	S	Freq	Witkop	JACS	76 (1954)	5589	
			Salicylidene-o-amino-benzyl alcohol hydrochloride	-	S	Freq	Witkop	JACS	76 (1954)	5589	
			O-Hydroperoxy-(α -methoxybenzylimino)benzene	-	Sol	Spec, Freq	Witkop	JACS	74 (1952)	3861	
			3-Morpholino-1,4-naphthaquinone	-	Sol	Band study	Buckley	JCS	- (1957)	4891	

$C_{14}H_{13}NO_4S$	p-Tolyl p-nitrobenzyl sulfone	1100-1400	S	Spec, Freq	Bavin	SA	16 (1960)	1312
$C_{14}H_{13}NO_5$	Norisocronycidine	1450-4000	S	Spec, Freq	Price	AJC	12 (1959)	589
$C_{14}H_{13}NS$	N- α -Methylthiobenzylideneaniline	-	Sol	Freq	Goulden	JCS	- (1953)	997
$C_{14}H_{13}N_2O_7PS$	Ethyl di-p-nitrophenyl thiophosphate	700-1630	S	Spec, Freq Freq, Assign	Bellamy Ketelaar	JCS RTC	- (1952) 78 (1959)	475 190
$C_{14}H_{13}N_2O_8P$	Di-p-nitrophenyl ethyl phosphate	-	-	Freq, Assign	Ketelaar	RTC	78 (1959)	190
$C_{14}H_{13}N_3$	5-Benzylaminopyridino (1',2',1:2')glyoxaline	-	Sol	Freq	Bristow	JCS	- (1954)	616
$C_{14}H_{13}N_3$	N-Benzyl-N-2-pyridyl-aminoacetoneitrile	-	Sol	Freq	Bristow	JCS	- (1954)	616
$C_{14}H_{13}N_3O$	Benzophenone semicarbazone	700-3500	S	Ident, Assign	Davison	JCS	- (1955)	3389
$C_{14}H_{14}$	2,4-Dimethylbiphenyl	650-2010	L	Spec	Cannon	SA	4 (1951)	373
$C_{14}H_{14}$	3,4'-Dimethylbiphenyl	650-2000	L	Struct	Cannon	SA	4 (1951)	373
$C_{14}H_{14}$	3,5-Dimethylbiphenyl	650-2020	L	Spec	Cannon	SA	4 (1951)	373
$C_{14}H_{14}$	1,1-Diphenylethane	3-4 μ 8000-9000	Sol Sol	Dispersion Anal Ident Freq	Wright Hibbard Corson Potts	RSI AC JOC AC	15 (1944) 21 (1949) 19 (1954) 27 (1955)	22 486 17 1027
$C_{14}H_{14}$	1,2-Diphenylethane	3.1-3.7 μ 3-4 μ	Sol L	Spec Prism dispersion Bond energy	Fox Wright Szwarc	PRS RSI DFS	167 (1938) 15 (1944) 2 (1947)	257 22 39
		700-3100	L,S	Spec	Richards	PRS	195 (1948)	1
		-	Sol	Anal	Rabinovitch	JACS	75 (1953)	2652

	2-15 μ		Ident	JACS	Overberger	JACS	(1955)	4104
	-	Sol	Freq	AC	Potts	AC	77 (1955)	1027
	-	Sol	Freq	JACS	Rondstvedt	JACS	77 (1955)	1769
	600-4000	Sol	Group freq, Substitution effect	JOS	Katritzky	JOS	- (1958)	4155
$C_{14}H_{14}$	-	-	Anal	JACS	Dannley	JACS	77 (1955)	1588
m-Ethylbiphenyl								
$C_{14}H_{14}$	-	-	Anal	JACS	Dannley	JACS	77 (1955)	1588
o-Ethylbiphenyl								
$C_{14}H_{14}$	-	-	Anal	JACS	Dannley	JACS	77 (1955)	1588
p-Ethylbiphenyl								
$C_{14}H_{14}$	15-35 μ	S	Spec, Struct	SA	Bentley	SA	15 (1959)	165
2-Methyldiphenylmethane								
$C_{14}H_{14}$	15-35 μ	S	Spec, Struct	SA	Bentley	SA	15 (1959)	165
3-Methyldiphenylmethane								
$C_{14}H_{14}$	8000-9000	Sol	Anal	AC	Hibbard	AC	21 (1949)	486
Phenyl-p-tolylmethane								
$C_{14}H_{14}$	15-35 μ	S	Spec, Struct	SA	Bentley	SA	15 (1959)	165
1,2,3,4-Tetrahydro-phenanthrene								
$C_{14}H_{14}$	2-15 μ	-	Struct, Ident	BSCF	Cagniant	BSCF	- (1957)	1403
1-Bromo-1-p-bromobenzoyl-cyclohexane-2-carboxylic acid								
$C_{14}H_{14}Br_2O_3$	2-16 μ	Sol	Spec	JACS	Bartlett	JACS	73 (1951)	4275
N-2-Methoxybenzyl-4-chloraniline								
$C_{14}H_{14}ClNO$	3200-3500	Sol	Freq, Spec	SA	Moritz	SA	15 (1959)	242
2-Chloro-3-diethylamino-1,4-naphthoquinone								
$C_{14}H_{14}ClNO_2$	3300-3500	S, Sol	Freq, Config	SA	Moritz	SA	16 (1960)	1176
Di-o-chlorobenzylsilane								
$C_{14}H_{14}Cl_2Si$	2-16 μ	Sol	Freq	JOS	Buckley	JOS	- (1957)	4891
2,3,5-Trichloro-6-(2'-hexamethylenelmino-vinyl)benzoquinone								
$C_{14}H_{14}Cl_3NO_2$	-	Sol	Band study	SA	Kniseley	SA	15 (1959)	651
p-Aminobenzoic acid metabolite								
$C_{14}H_{14}N \cdot 1/2H_2O$	2.9-13.25 μ	-	Band freq	JACS	Sloane	JACS	75 (1953)	6352

			S	Ident	Witkop	JACS	75 (1953)	1975
$C_{14}H_{14}N_2O$	Anisaldehyde phenylhydrazone	-	-	Ident	Witkop	JACS	75 (1953)	1975
$C_{14}H_{14}N_2O$	Benzoin hydrazone	-	-	Spec, Config	Domnin	ZOK	30 (1960)	799
$C_{14}H_{14}N_2O$	N-Benzyl- α -(4-pyridyl)acetamide	600-4000	Sol	Freq	Katritzky	JCS	- (1958)	4155
$C_{14}H_{14}N_2O$	4-Hydroxyazatoluene	600-1700	S	Freq, Spec	Lefevre	AJC	10 (1957)	26
$C_{14}H_{14}N_2O$	α -Phenylglycolaldehyde phenylhydrazone	650-4000	S,Sol	Freq	Tanner	SA	15 (1959)	20
$C_{14}H_{14}N_2O$	4,5,6,7-Tetrahydro-4-keto-3-methyl-1-phenylisoin-dazole	5.98-13.83 μ S	I	I	Smith	JCS	- (1953)	803
$C_{14}H_{14}N_2OS_2$	4,4'-Dimethylmercaptoazoxybenzene	1-15 μ	S,Sol, L	Assign	Maier	ZE	62 (1958)	1020
$C_{14}H_{14}N_2O_2$	4-Acetoxy-5-methyl-6-phenyl-7H-1,2-diazepine	-	-	Band freq, I	Moore	JACS	77 (1955)	3417
$C_{14}H_{14}N_2O_2$	2-Acetyl-1,2,3,4-tetrahydro-8-methyl-1-oxo- β carboline	6 μ	S	Band study	Abramovitch	JCS	- (1957)	1413
$C_{14}H_{14}N_2O_2$	2-Acetyl-1,2,3,4-tetrahydro-9-methyl-1-oxo- β carboline	6 μ	S	Band study	Abramovitch	JCS	- (1957)	1413
$C_{14}H_{14}N_2O_2$	N,N'-Dibenzylidimide dioxide	600-1600	L,S, Sol	Freq	George	CJC	37 (1959)	679
$C_{14}H_{14}N_2O_2$	4,4'-Dimethoxyazobenzene	1-15 μ	S,Sol, L	Assign	Maier	ZE	62 (1958)	1020
$C_{14}H_{14}N_2O_2$	Phenylnitrosomethane	-	-	Freq, Struct	Iuttko	ZE	61 (1957)	976

C ₁₄ H ₁₄ N ₂ O ₂	4,5,6,7-Tetrahydro-1-p-aminophenylisatin	900-4000	S, Sol	Freq	O'Sullivan	JCS (1959)	876
C ₁₄ H ₁₄ N ₂ O ₃	4,4'-Dimethoxyazoxybenzene	1-15 μ	S, Sol, L	Assign	Maier	ZE 62 (1958)	1020
C ₁₄ H ₁₄ N ₂ O ₄ ·H ₂ SO ₄	2-Amino-3-hydroxytropone sulfate	728-3413	S	Table	Johnson	JCS - (1955)	1841
C ₁₄ H ₁₄ N ₂ O ₆ S ₂	4,4-Diamino-2,2'-disulfostilbene	2-8 μ	S	Spec	Nakanishi	BOSJ 30 (1957)	403
C ₁₄ H ₁₄ N ₂ S ₂	4,4-Dimethylmercaptoazobenzene	1-15 μ	S, L, Sol	Assign	Maier	ZE 62 (1958)	1020
C ₁₄ H ₁₄ N ₄	Benzyl dihydrazone	-	-	Spec, Config	Domnin	ZOK 30 (1960)	799
C ₁₄ H ₁₄ N ₄	bis-(Pyridinal)ethylene-diimine	600-4000	Sol	Assign	Bush	JACS 78 (1956)	1137
C ₁₄ H ₁₄ N ₄ O ₂	4-Dimethylamino-4-nitroazobenzene	600-1700	S	Spec, Freq	LeFevre	AJC 10 (1957)	26
C ₁₄ H ₁₄ N ₄ O ₇	2,6-Dimethyl-4-methoxy-pyridinium picrate	1400-1700	S	Freq	Tsubomura	JCP 28 (1958)	355
C ₁₄ H ₁₄ N ₄ S ₂ ·2HCl	Di-p-amidinophenyl disulfide dihydrochloride	5.5-24 μ	S	Spec, Freq	Cymerman	JCS - (1951)	1332
C ₁₄ H ₁₄ O	Dibenzyl ether	0.8-2.5 μ	L	Spec	Sappenfield	PR 33 (1929)	37
		-	-	Freq, Assign	Murray	JCP 9 (1941)	129
		1050-2000	-	Spec	Barnes	IEC 15 (1943)	659
		700-1500	L	Spec, Assign	Richards	JCS - (1947)	1260
		15-20 μ	L	Transparent solvent	Marrison	JSI 29 (1952)	233
C ₁₄ H ₁₄ O	1,2-Diphenylethanol	-	Sol	H bond, Anal	Bailey	JACS 75 (1953)	2951
		600-4000	Sol	Spec, Ident	Curtin	JACS 75 (1953)	6011
		1.4 μ	Sol	H bond	Goldman	JOC 23 (1958)	751

$C_{14}H_{14}O$	p-Ethoxybiphenyl	1050-1800	-	Spec	Barnes	IEC	15 (1943)	659
$C_{14}H_{14}O$	Methyldiphenylmethanol	-	-	Freq, Assign	Michinori	BCSJ	32 (1959)	950
$C_{14}H_{14}O$	Phenyl-p-tolylmethanol	665-5000	L	Freq	Zeiss	JACS	75 (1953)	897
$C_{14}H_{14}O_2$	m-Benzylloxybenzyl alcohol	-	-	Freq, Iso	Okii	BCSJ	32 (1959)	955
$C_{14}H_{14}O_2$	p-Benzylloxybenzyl alcohol	-	-	Freq, Iso	Okii	BCSJ	32 (1959)	955
$C_{14}H_{14}O_2$	1,1-Diacetyl-4-phenyl-1,3-butadiene	1200-1800	Sol	Spec, Freq	Lacey	JOS	- (1960)	3153
$C_{14}H_{14}O_2$	4,4'-Dihydroxy- α , α -diphenylethane	700-3600	S,Sol	Spec, Assign	Richards	JOS	- (1947)	1260
$C_{14}H_{14}O_2$	1,2-Diphenoxyethane	7-14 μ	L	Freq	Miyake	JACS	82 (1960)	3040
$C_{14}H_{14}O_2$	cis-Di(p-tolyl)diol	3 μ	-	H bond	Moriconi	JOC	22 (1957)	1651
$C_{14}H_{14}O_2S$	Benzyl p-tolyl sulphone	1100-1400	Sol	Spec, Freq	Bavin	SA	16 (1960)	1312
$C_{14}H_{14}O_2S$	Dibenzyl sulfone	1000-1500 1100-1400	Sol Sol	Spec Freq, Spec	Schreiber Bavin	AC SA	21 (1949) 16 (1960)	1168 1312
$C_{14}H_{14}O_2S$	Phenyl β -phenylethyl sulfone	6.2-14.5 μ	S	I	Field	JACS	74 (1952)	3919
$C_{14}H_{14}O_3$	Dihydrodesmethoxy-yangonine	2-12 μ	Sol	Struct	Chmielewska	TE	4 (1958)	36
$C_{14}H_{14}O_3$	Dihydrodesmethoxy-pseudoyangonine	2-12 μ	Sol	Struct	Chmielewska	TE	4 (1958)	36
$C_{14}H_{14}O_3$	2-Isovalerylindane-1,3-dione	-	-	Freq, Struct	Birch	JCS	- (1951)	3026
$C_{14}H_{14}O_3$	Kawain	700-1330	S,Sol	Spec	Fowler	JCS	- (1950)	3642

$C_{14}H_{14}O_3$			L,S	Freq	Rogers	JOS	(1955)	341
2-Phenylacetylcylohexane-1,3-dione	-	-	-	-	-	-	-	-
$C_{14}H_{14}O_4$	Diallyl phthalate	1050-1800 - 2-15 μ	- Sol L	Spec Ident, Freq Spec	Barnes Kruse Kendall	IEC AC AFS	15 (1943) 24 (1952) 7 (1953)	659 2015 179
$C_{14}H_{14}O_4$	Tetradeca-2,12-diene-6,8-diyne dioic acid	-	-	I	Shaw	JOS	-	(1954) 3217
$C_{14}H_{14}O_4$	1,5,9,10-Tetrahydroxy-1,4,11,12-tetrahydroanthracene	-	-	Spec	Inhoffen	COA	29 (1957)	329
$C_{14}H_{14}O_4$	1,8,9,10-Tetrahydroxy-1,4,11,12-tetrahydroanthracene	-	-	Spec	Inhoffen	COA	29 (1957)	329
$C_{14}H_{14}O_4S$	2,4-Dimethoxy(phenylsulfonyl)benzene	-	S	Freq	Amstutz	JACS	73 (1951)	1220
$C_{14}H_{14}O_4S$	Di-m-methoxyphenyl sulfone	1150	Sol	Freq	Rogers	JACS	78 (1956)	1790
$C_{14}H_{14}O_4S_2$	1,2-Di-(phenylsulfonyl)ethane	1000-1500	Sol	Spec	Schreiber	AC	21 (1949)	1168
$C_{14}H_{14}O_4S_5$	bis-Toluene-p-sulfonyl trisulfide	5.5-24 μ	S	Spec, Freq	Cymmerman	JOS	-	(1951) 1332
$C_{14}H_{14}O_5$	Trimethylpurpurogallin	-	Sol	Freq	Bryant	JOC	19 (1954)	1889
$C_{14}H_{14}O_6$	2-Hydroxy-4,6-dimethoxycoumaran-3-one-2- β -butyric acid lactone	-	-	Ident	MacMillen	JOS	-	(1953) 1697
$C_{14}H_{14}O_7$	Dimethyl benzoxymethoxy maleate	2.78-9.77 μ	Sol	Group freq	Goodwin	JACS	76 (1954)	5599

$C_{14}H_{14}O_7$	3-(7-Methoxy-3-methyl-phthalidyl)succinic acid	- - -	Ident	Kushner	JACS	74 (1952)	3710
$C_{14}H_{14}O_8$	Tetramethyl benzene-1,2,3,4-tetracarboxylate	- - -	Ident	Fuson	JOC	18 (1953)	496
$C_{14}H_{14}S$	Benzyl sulfide	0.6-2.8 μ L 1000-1500 Sol	Group freq Spec	Wintersteiner	JACS	75 (1953)	2781
$C_{14}H_{14}S_2$	Di-benzyl disulfide	400-1700 S	Assign, Spec Freq	Ellis Schreiber	JACS AC	70 (1948) 21 (1949)	2113 1168
$C_{14}H_{14}S_2$	1,2-Di(phenylmercapto)ethane	1000-1500 Sol	Spec	Trotter Sheppard	JCS TFS	- (1946) 46 (1950)	481 429
$C_{14}H_{14}S_2$	Di-o-tolyl disulfide	5.5-24 μ S	Spec, Freq	Schreiber	AC	21 (1949)	1168
$C_{14}H_{14}S_2$	Di-p-tolyl disulfide	5.5-24 μ S	Spec, Freq	Cymerman	JCS	- (1951)	1332
$C_{14}H_{14}Si$	Diphenylvinylsilane	2050-2250 Sol	Freq	Cymerman	JCS	- (1951)	1332
$C_{14}H_{15}BrO_3$	cis-1-p-Bromobenzoyl-cyclohexane-2-carboxylic acid	2-16 μ Sol	Spec	Smith	SA	15 (1959)	412
$C_{14}H_{15}BrO_3$	trans-1-p-Bromobenzoyl-cyclohexane-2-carboxylic acid	2-16 μ Sol	Spec	Bartlett	JACS	73 (1951)	4275
$C_{14}H_{15}BrO_4$	1-Hydroxy-1-p-bromobenzoylcyclohexane-2-carboxylic acid	2-16 μ Sol	Spec, Iso	Bartlett	JACS	73 (1951)	4275
$C_{14}H_{15}ClO_6$	7-Chloro-4,6-dimethoxycoumarone-2- β -butyric acid	- - - Sol	Ident, Struct Spec	Grove Duncanson	JCS JCS	- (1952) - (1957)	3958 3555
$C_{14}H_{15}ClO_7$	7-Chloro-2-hydroxy-4,6-dimethoxycoumaran-3-one-2- β -butyric acid	700-1900 -	Spec, Group freq	Grove	JCS	- (1952)	3967

$C_{14}H_{15}N$	N-Benzyl-2-methylaniline	3200-3500 3300-3500	Sol S,Sol	Freq, Spec Freq, Config	Moritz Moritz	SA 15 (1959) 242 SA 16 (1960) 1176
$C_{14}H_{15}N$	N-Benzyl-p-methylaniline	3370-3470	Sol	Group study	Oki	BCSJ 33 (1960) 784
$C_{14}H_{15}N$	N-Benzyl-N-methylaniline	2900-3100	Sol	Freq	Hill	JCS - (1958) 760
$C_{14}H_{15}N$	Dibenzylamine	1-12 0.6-2.4 6400-6800 2-15 -	L L Sol Sol Sol	Spec Group study Band study Reference Freq, I	Bell Ellis Liddel Overberger Russell	JACS 48 (1926) 818 JACS 50 (1928) 685 JACS 55 (1933) 3574 JACS 77 (1955) 4100 JCS - (1955) 483
$C_{14}H_{15}N \cdot HCl$	Dibenzylamine hydrochloride	600-4000	S	Freq, Assign	Stone	JCS - (1958) 52
$C_{14}H_{15}N$	N-p-Diphenylethylamine	-	S,Sol	Group freq	Baxter	JCS - (1955) 669
$C_{14}H_{15}NO$	N-Benzyl-p-methoxyaniline	- 3370-3470	- Sol	Freq Group study	Oki Oki	BCSJ 32 (1959) 955 BCSJ 33 (1960) 784
$C_{14}H_{15}NO$	1,2-Dihydro-2-phenyl-3,1,4a-benzoxazine	-	Sol	Freq	Witkop	JACS 76 (1954) 5589
$C_{14}H_{15}NO \cdot HCl$	1,2-Dihydro-2-phenyl-3,1,4a-benzoxazine hydrochloride	-	S	Freq	Witkop	JACS 76 (1954) 5589
$C_{14}H_{15}NO$	2-N-p-Diphenylaminoethanol	-	S,Sol	Group freq	Baxter	JCS - (1955) 669
$C_{14}H_{15}NO$	N-2-Hydroxybenzyl-3-methylaniline	3200-3500	Sol	Freq, Spec	Moritz	SA 15 (1959) 242
$C_{14}H_{15}NO$	N-2-Hydroxybenzyl-4-methylaniline	3200-3500	Sol	Freq, Spec	Moritz	SA 15 (1959) 242
$C_{14}H_{15}NO$	2-Keto-1,2,3,4,5,6-hexahydrocyclooctindole	2-11	Sol	Spec	Witkop	JACS 73 (1951) 2641
$C_{14}H_{15}NO$	N-m-Methoxybenzyl-aniline	3370-3470	Sol	Group study	Oki	BCSJ 33 (1960) 784

$C_{14}H_{15}NO$	N-o-Methoxybenzylaniline	3200-3500 3300-3500	Sol S,Sol	Freq, Spec Freq, Config	Moritz Moritz	SA 15 (1959) SA 16 (1960)	242 1176
$C_{14}H_{15}NO$	N-p-Methoxybenzylaniline	- 3370-3470	- Sol	Freq Group study	Oki Oki	BOSJ 32 (1959) BOSJ 33 (1960)	955 784
$C_{14}H_{15}NO$	1-(2'-Quinolyl)-4-pentanone	-	-	Freq	Boekeheide	JACS 73 (1951)	4015
$C_{14}H_{15}NO$	5,6,7,8-Tetrahydro-8-hydroxy-9-methylphenanthridine	3.18-13.42 μ S		I	Smith	JOS - (1953)	803
$C_{14}H_{15}NO_2$	1-(2,6-Diketocyclohexyl)ethylideneaniline	3.75-13.87 μ S		I	Smith	JOS - (1953)	803
$C_{14}H_{15}NO_2$	1-(2,6-Dioxocyclohexyl)-2-anilinoethylidene	-	S,L	Freq	Rogers	JOS - (1955)	341
$C_{14}H_{15}NO_2$	Ethyl (β -phenylisopropylidene) cyanoacetate	-	-	Struct	Fuson	JOC 16 (1951)	1529
$C_{14}H_{15}NO_2$	N-2-Hydroxybenzyl-4-methoxyaniline	3200-3500	Sol	Spec, Freq	Moritz	SA 15 (1959)	242
$C_{14}H_{15}NO_3$	dl-Anhydromonocrotal anilide	866-3345	S	Freq	Ames	JOS - (1954)	375
$C_{14}H_{15}NO_3$	1,4-Diethyl-4-phenyl-2,3,5-pyrrolidinetrione	2-16 μ	S	Spec	Skinner	JACS 72 (1950)	5569
$C_{14}H_{15}NO_3$	Ethyl β -cyano- α -ethoxy-cinnamate	2-16 μ	L	Spec	Skinner	JACS 73 (1951)	2230
$C_{14}H_{15}NO_3 \cdot HCl$	3-(N-Morpholinomethyl)chromone hydrochloride	-	-	Spec	Wiley	JACS 74 (1952)	4326
$C_{14}H_{15}NO_3$	1-Phenyl-4,4-diethyl-2,3,5-pyrrolidinetrione	2-16 μ	S	Spec	Skinner	JACS 72 (1950)	5569

$C_{14}H_{15}NO_3$	Spiro- [cyclopentane-1,2'-N-acetoxy- ψ -indoxyl]	2-11 μ	Sol	Band study	Wittkop	JACS 72 (1950)	614
$C_{14}H_{15}NO_3S$	N-Benzene-sulfonyl-p-phenetidine	-	S, Sol	Freq	Baxter	JCS - (1955)	669
$C_{14}H_{15}NO_4$	1-cis-5-Methyl-2-cyclohexenyl p-nitrobenzoate	-	Sol	Ident	Goering	JACS 76 (1954)	5405
$C_{14}H_{15}NO_6$	Diethyl p-nitrobenzylidenemalonate	2-15 μ	S	Spec, Freq	Abramovitch	CJC 36 (1958)	151
$C_{14}H_{15}N_3$	p-N,N-Dimethylaminoazobenzene	420-4000	-	Spec, Assign	Gray	DA 19 (1958)	454
$C_{14}H_{15}N_3OS_2$	3-Allyl-5-p-dimethylaminophenyliminothodanine	-	-	Freq, Struct	Mackie	JCS - (1954)	3919
$C_{14}H_{15}O_3P$	Dibenzyl phosphonate	700-1400	Sol	Spec, Freq	Bellamy	JCS - (1952)	475
		-	-	Freq	Bellamy	JCS - (1952)	1701
		-	-	Freq	Bell	JACS 76 (1954)	5185
$C_{14}H_{15}O_4P$	Dibenzyl hydrogen phosphate	670-3500	-	Freq	Bellamy	JCS - (1952)	1701
		1500-4000	S	Spec, Assign	Bellamy	JCS - (1953)	728
		-	-	Freq	Bell	JACS 76 (1954)	5185
		-	-	Spec	Braunholtz	JCS - (1959)	868
$C_{14}H_{15}O_4P$	Ethyl diphenyl phosphate	670-1600	L, S	Spec, Freq	Bellamy	JCS - (1952)	475
		900-1060	Sol	Freq, I	Halmann	JCS - (1953)	626
		-	-	Freq	Bell	JACS 76 (1954)	5185
$C_{14}H_{15}O_6P$	Di-o-methoxyphenyl hydrogen phosphate	600-4000	S	Freq	Bellamy	JCS - (1952)	1701
		-	-	Group freq	Bell	JACS 76 (1954)	5185
		-	-	Group study	Braunholtz	JCS - (1959)	868
$C_{14}H_{16}$	2-t-Butylnaphthalene	6 μ	-	Spec	Kietz	JACS 70 (1948)	4026

				Ident		Grant	JACS	
$C_{14}H_{16}$	1,2,5,6-Tetramethyl-naphthalene	-	-	Ident		Grant	JACS	76 (1954) 5001
$C_{14}H_{16}$	1,3,5,8-Tetramethyl-naphthalene	900-630	S, Sol	Substitution effect		Cencelj	SA	7 (1955) 274
$C_{14}H_{16}$	1,4,5,7-Tetramethyl-naphthalene	2-16 μ	S, Sol	Spec		Mosby	JACS	74 (1952) 2564
$C_{14}H_{16}$	1,4,5,8-Tetramethyl-naphthalene	2-16 μ 630-900	S, Sol S, Sol	Spec Substitution effect		Mosby Cencelj	JACS SA	74 (1952) 2564 7 (1955) 274
$C_{14}H_{16}$	1,4,6,7-Tetramethyl-naphthalene	2-16 μ 630-900	S, Sol S, Sol	Spec Substitution effect		Mosby Cencelj	JACS SA	74 (1952) 2564 7 (1955) 274
$C_{14}H_{16}ClNS$	7-Chloro-4-n-butylthio-2-methylquinoline	2-16 μ	S	Spec		Hannan	JACS	71 (1949) 3733
$C_{14}H_{16}ClNS$	7-Chloro-4-methyl-2-n-butylthioquinoline	2-16 μ	L	Spec		Hannan	JACS	71 (1949) 3733
$C_{14}H_{16}ClN_3O$	N,O-Di-(2-cyano-2-propyl)-N-m-Chlorophenylhydroxylamine	-	-	Freq, I		Gingras	JCS	- (1954) 1920
$C_{14}H_{16}ClN_3O$	N,O-Di-(2-Cyano-2-propyl)-N-o-chlorophenylhydroxylamine	-	-	Freq, I		Gingras	JCS	- (1954) 1920
$C_{14}H_{16}ClN_3O$	N,O-Di-(2-Cyano-2-propyl)-N-p-chlorophenylhydroxylamine	-	-	Freq, I		Gingras	JCS	- (1954) 1920
$C_{14}H_{16}Cl_2N_2O_3$	2,5-Dichloro-3-dimethylamino-6-(2'-morpholinovinyl) benzoquinone	-	. Sol	Band freq		Buckley	JCS	- (1957) 4891
$C_{14}H_{16}Cl_2N_2O_4$	2,5-Dichloro-3,6-dimor-	-	Sol	Band study		Buckley	JCS	- (1957) 4891

$C_{14}H_{16}NO_3$	Dibenzylamino phosphonate	-	-	Freq	Bellamy	JCS - (1952)	1701
$C_{14}H_{16}N_2$	1,1-Dibenzylhydrazine	2-15 μ	-	Reference	Overberger	JACS 77 (1955)	4100
$C_{14}H_{16}N_2 \cdot HCl$	2,6-Dimethyl-4-(β -phenylethyl)pyrimidine hydrochloride	-	-	Struct	Sullivan	JACS 77 (1955)	1559
$C_{14}H_{16}N_2$	2-(2'-Quinoly)-3-dimethylamino-1-propene	-	-	Band freq	Boekelheide	JACS 73 (1951)	4015
$C_{14}H_{16}N_2O$	1-Methyl-2-phenylcyclopentyl diazomethyl ketone	-	-	Group freq	Newman	JACS 75 (1953)	349
$C_{14}H_{16}N_2O$	Monopiperidinoquinoline-N-oxide	700-3000	-	Spec	Shindo	CPBT 8 (1960)	845
$C_{14}H_{16}N_2O_2$	3-Cyclohexylbenzoylene-urea	2-16 μ	S	Spec, Group freq	Staiger	JOC 18 (1953)	1427
$C_{14}H_{16}N_2O_3$	N,N-Diethylphthaloyl-glycolamide	2-11 μ	Sol	Spec, Freq, Struct	Sheehan	JACS 73 (1951)	4367
$C_{14}H_{16}N_2O_4$	N,N'-Diacetoxytetrahydro-4',4'-dipyridyl	650-3900	S	Spec	Frank	JACS 70 (1948)	1767
$C_{14}H_{16}N_2O_5$	1,2-Dicarbethoxy-N-glyoxal monophenylhydrazone	650-1000	Sol	H bond	Tanner	SA 15 (1959)	20
$C_{14}H_{16}N_2O_6$	2,6-Diacetoxy-3-diacetyl-amino-4-methylpyridine	766-1767	S	Freq	Ame s	JCS - (1953)	3008
$C_{14}H_{16}N_4O_6$	2-Acetoxy-cyclohexanone 2,4-dinitrophenylhydrazone	-	Sol	Band freq	Ramirez	JACS 75 (1953)	6026
$C_{14}H_{16}O$	1-Benzoylcycloheptene	-	-	Group freq	Ginsburg	JCS - (1954)	2361

$C_{14}H_{16}O$	cis-1,2,3,4,4a,9,10,10a-Octahydro-9-ketophenanthrene	2-12 μ	-	Spec	Gutsche	JACS 73 (1951)	786
$C_{14}H_{16}O$	trans-1,2,3,4,4a,9,10,10a-Octahydro-9-ketophenanthrene	2-12 μ	-	Spec	Gutsche	JACS 73 (1951)	786
$C_{14}H_{16}O$	4b,5,6,7,8,9,9a,10-Octahydro-10-ketocyclohepta[a]indene	2-12 μ	-	Spec	Gutsche	JACS 73 (1951)	786
$C_{14}H_{16}O$	1,2,3,4,7,8,9,10-Octahydro-7-oxo-5,6-benzazulene	-	-	Group freq	Ginsburg	JCS - (1954)	2361
$C_{14}H_{16}O$	1-Phenylacetylcyclohexene	-	-	Group freq	Parham	JACS 77 (1955)	1166
$C_{14}H_{16}O$	2,4,6,8,10,12-Tetradecahexaenal	1400-2000	S,Sol	Spec	Blout	JACS 70 (1948)	194
$C_{14}H_{16}O_2Si$	bis-(p-Methoxyphenyl)silane	2-13 μ	Sol	Spec	West	JOC 18 (1953)	303
$C_{14}H_{16}O_2Si$	Di-p-anisylsilane	2-16 μ	Sol	Freq	Kriseley	SA 15 (1959)	651
$C_{14}H_{16}O_3$	2-Benzoylcyclopentyl-acetic acid	-	-	Group freq, I	Ginsburg	JACS 76 (1954)	2361
$C_{14}H_{16}O_3$	Norsantonin	835-3020	Sol	I, Freq	Gunstone	JCS - (1955)	1130
$C_{14}H_{16}O_3$	4-Norsantonin	2-15 μ	Sol	Struct	Kanzawa	JACS 80 (1958)	3705
$C_{14}H_{16}O_3$	11-Norsantonin	2-15 μ	S	Struct	Kanzawa	JACS 80 (1958)	3705
$C_{14}H_{16}O_3$	Xanthatin	2-12 μ	Sol	Spec, Freq, Struct	Geissman	JACS 76 (1954)	685
$C_{14}H_{16}O_5$	3,4-Dihydro-6,7-dimethoxy-3-methyl-1(2)naphthalene-4-carboxylic acid	-	Sol	Group freq	Edwards	JACS 76 (1954)	6188

C ₁₄ H ₁₆ O ₆	Ethyl phthalyl ethyl glycolate	2-15 μ	L	Spec	Kendall	APS	7 (1953)	179
C ₁₄ H ₁₆ O ₇	4,5,6-Trimethoxyindane-2,3-dicarboxylic acid	-	S	Group freq	Koo	JACS	75 (1953)	1889
C ₁₄ H ₁₆ Si	Dibenzylsilane	2-16 μ	Sol	Freq	Kniseley	SA	15 (1959)	651
C ₁₄ H ₁₆ Si	Dimethyldiphenylsilane	3-12 μ	L	Spec	Kanazashi	BCSJ	27 (1954)	441
		2-15 μ	Sol	Freq, Spec, Struct	Smith	SA	16 (1960)	87
C ₁₄ H ₁₆ Si	Di-p-tolylsilane	2-16 μ	Sol	Freq	Kniseley	SA	15 (1959)	651
C ₁₄ H ₁₆ Si	Methylphenyl-m-tolylsilane	2-16 μ	Sol	Freq	Kniseley	SA	15 (1959)	651
C ₁₄ H ₁₆ Si	Methylphenyl-o-tolylsilane	2-16 μ	Sol	Freq	Kniseley	SA	15 (1959)	651
C ₁₄ H ₁₆ Si	Methylphenyl-p-tolylsilane	2-16 μ	Sol	Freq	Kniseley	SA	15 (1959)	651
C ₁₄ H ₁₇ CLN ₂	Harmaline methochloride		Sol	Band freq	Witkop	JACS	75 (1953)	4474
C ₁₄ H ₁₇ N	N,N-Diethyl-1-naphthylamine	2-12 μ	L	Spec	Bell	JACS	47 (1925)	3039
		0.6-2.3 μ	L	Group study	Ellis	JACS	50 (1928)	685
C ₁₄ H ₁₇ N.HCl	Spiro-(cyclopentane-1,3-pseudo-2'-ethylindole) hydrochloride	2-12 μ	Sol	Spec	Witkop	JACS	73 (1951)	1558
C ₁₄ H ₁₇ N.HCl	11-Ethyltetrahydrocarbazolenine hydrochloride	2-12 μ	Sol	Spec	Witkop	JACS	73 (1951)	1558
C ₁₄ H ₁₇ NO	Benzo i -6-keto-1-azabicyclo[5.4.0]-hendecane	-	Sol	Freq	Leonard	JACS	76 (1954)	3193

$C_{14}H_{17}NO$	2-16 μ	Sol	Spec, Freq	Cook	JOC	79 (1957)	211
1,4-Dimethyl-3-propyl-carbostyryl	-	-	Group freq	Fuson	JACS	74 (1952)	1631
α -Mesityllevulinonitrile	2-15 μ	S, Sol	Band freq	Wildman	JACS	76 (1954)	152
6-Methoxy-1,4,4a,9,10,10a-hexahydrophenanthridine	-	-	Spec	Wiley	JACS	74 (1952)	4326
3-Diethylaminomethyl-chromone hydrochloride	650-3800	S	Spec	Ross	JACS	73 (1951)	129
1-Cyano-2-benzylsulfonyl cyclohexane	-	Sol	Band freq, I	Ramirez	JACS	77 (1955)	1035
6-(4'-Carbomethoxy)butyl-2-hydroxy-1,7H-pyridine	-	S	Band freq, I	Ramirez	JACS	77 (1955)	1035
9-Carbomethoxy-1,2,3,4,4a,10a-hexahydrobenzo[b]pyrrocolin-6(10H)-one	700-4000	S, Sol	Assign, Struct	Crownwell	JACS	80 (1958)	4573
β -Morpholinolpropionone	2-11 μ	Sol	Table	Witkop	JACS	72 (1950)	614
9-Acetoxy-10,11-dihydroxy-hexahydrocarbazole	-	Sol	Band freq, I	Ramirez	JACS	77 (1955)	1035
6-(4'-Carbomethoxy)butyl-2-hydroxy-5-oxo-6,7-dihydro-1,5H-pyridine	-	Sol	Ident	Goering	JACS	76 (1954)	5405
cis-3-Methylcyclohexyl	-	Sol	Ident	Goering	JACS	76 (1954)	5405

Compound	Wavenumber	State	Spec	Author	Year
1-Cyano-2-benzylmercapto-cyclohexane	650-3800	S	Spec	Ross	1951
N,0-Di-(2-cyano-2-propyl) N-phenylhydroxylamine	-	-	Group freq, I	Gingras	(1954) 1920
sym-Octahydroanthracene	2-15	-	Freq, Spec Struct, Ident	Scheer Cagniant	JACS 77 (1955) 3300 BSCF - (1957) 1403
sym-Octahydrophenanthrene	-	Sol	Band study	Scheer	JACS 77 (1955) 3300
cis-Unsym-octahydrophenanthrene	3.2-3.5	Sol	Band freq	Wall	JACS 62 (1940) 2225
2,4,6,8,10,12-Tetradecahexaene	1400-2000	S	Spec	Blout	JACS 70 (1948) 194
Di-n-butyl octafluoro-adipate	-	L	Group freq	Rappaport	JACS 75 (1953) 2695
Di-sec-butyl octafluoro-adipate	-	L	Group freq	Rappaport	JACS 75 (1953) 2695
2,2,3,3,4,4,5,5-Octafluoro-1,6-hexanediol dibutyrate	-	L	Group freq	Rappaport	JACS 75 (1953) 2695
spiro-(Cyclopentane-1,3'-pseudo-2'-methylindole) methiodide	-	Sol	Band freq	Witkop	JACS 75 (1953) 4474
-Methyl-(2-piperidyl) indole	-	-	Ident	VanTamelén	JACS 77 (1955) 1860
5,5-Dimethyl-3-isopropylidene-2-(3'-pyridyl)pyrroline	6.36	Sol	Effect of subst	Meyers	JOC 24 (1959) 1233

$C_{14}H_{18}N_2$	5,5-Dimethyl-3-isopropyl- indene-2-(4'-pyridyl) pyrroline	6.36	Sol	Effect of subst	Meyers	JOC 24 (1959) 1233
$C_{14}H_{18}N_2O_2$	N-Carboethoxymethyl- N-cyanopropyl- aniline	-	-	Group freq	Leonard	JACS 75 (1953) 3727
$C_{14}H_{18}N_2O_4$	3,6-Dimorpholino-p- benzoquinone	-	Sol	Band freq	Buckley	JCS - (1957) 4891
$C_{14}H_{18}N_4O_4$	2,2-Dimethylcyclohexa- none-2,4-dinitrophenyl- hydrazone	2-16	Sol	Spec, Freq	Ramirez	JACS 76 (1954) 1037
$C_{14}H_{18}N_4O_8$	4-Piperidylacetone pi orate	-	S	Group freq	Leonard	JACS 75 (1953) 6249
$C_{14}H_{18}N_6O_6S$	3,5'-Cyclo-6-dimethyl- amino-9-(3'-amino-3'- deoxy-D-ribofuranosyl) purine-2',3'-carbonate methanesulfonate	-	S	Group freq	Baker	JACS 77 (1955) 15
$C_{14}H_{18}O$	-n-Amyloinnamaldehyde	-	Sol	Group freq	Pinchas	AC 27 (1955) 2
$C_{14}H_{18}O$	1,2-(3'-5'-Dimethylbenzo) cyclooct-1-en-3-one	-	L	Freq	Schubert	JACS 76 (1954) 5462
$C_{14}H_{18}O$	2-Hydroxy-sym-octahydro- phenanthrene	-	Sol	Freq	Scheer	JACS 77 (1955) 3300
$C_{14}H_{18}OSi_2$	Methyl methylphenylsiloxy- phenylsilane	2050-2250	S	Freq, Struc	Smith	SA 15 (1959) 412
$C_{14}H_{18}O_2$	2-Butyryl-5,6,7,8- tetrahydro-1-naphthol	800-2900	Sol	Spec, Freq	Lacey	JCS - (1960) 3153

tetrahydro-1-naphthol

(1960) 3153

Formula	Compound Name	Wavenumber	Phase	Band freq	Author	Year
C ₁₄ H ₁₈ O ₂	cis-syn- $\Delta^9(14)$ -Dodecahydro-1,4-dioxphenanthrene	-	-	Band freq	Robins	(1954) 3960
C ₁₄ H ₁₈ O ₂	trans-anti- $\Delta^9(14)$ -Dodecahydro-1,4-dioxphenanthrene	-	-	Band freq	Robins	(1954) 3960
C ₁₄ H ₁₈ O ₂	Vinyloxyethyl 2-crotylphenyl ether	-	-	Group freq	Butler	77 (1955) 482
C ₁₄ H ₁₈ O ₂	Vinyloxyethyl 2-methallylphenyl ether	-	-	Group freq	Butler	77 (1955) 482
C ₁₄ H ₁₈ O ₃	2-Carbomethoxy-4-(α -ethylallyl)-6-methylphenol	9.5-11.5 μ	L	Spec, Group freq, Struct	Rhoads	76 (1954) 3456
C ₁₄ H ₁₈ O ₃	2-Carbomethoxy-4-(γ -ethylallyl)-6-methylphenol	9.5-11.5 μ	L	Spec, Group freq, Struct	Rhoads	76 (1954) 3456
C ₁₄ H ₁₈ O ₃	Methyl cresotinate α -ethylallyl ether	-	-	Group freq	Rhoads	75 (1953) 2531
C ₁₄ H ₁₈ O ₃	Methyl cresotinate γ -ethylallyl ether	9-11 μ	L	Spec, Freq, Struct	Rhoads	76 (1954) 3456
C ₁₄ H ₁₈ O ₃	Methyl 6-keto-2-methyl-6-phenylhexanoate	-	-	Group freq	Newman	75 (1953) 349
C ₁₄ H ₁₈ O ₃	13-Nor-3-oxiresin	-	Sol	Freq	Djerassi	76 (1954) 6410
C ₁₄ H ₁₈ O ₄	1-Ethoxy-1-guaiacylpropanone-2-acetate	600-4000	S	Spec, Freq	Herzert	25 (1960) 405
C ₁₄ H ₁₈ O ₄	Picrotoxinide	2-13 μ	Sol	Spec, Freq	Conroy	74 (1952) 491
C ₁₄ H ₁₈ O ₄	2,3,4-Trimethoxybenzo-suber-5-one	-	-	Spec, Freq	Koo	75 (1953) 720

$C_{12}H_{18}O_6$	Methyl 4,6-benzylidene- α -D-glucopyranoside	2-16 μ	-	Spec, Struct	Rowen	JACS 73 (1951)	4484
$C_{14}H_{18}O_7$	Piceoside	20.7-152 μ	S	Transmission	Seifert	RSI 11 (1940)	365
$C_{14}H_{18}S_2$	meso-3,4-Di-(2-thienyl)hexane	3-14.5 μ	S, Sol	Spec, Freq	Sice	JACS 75 (1953)	1628
$C_{14}H_{19}BrN_4O$	Neopyrithiamine hydrobromide	2-15 μ	S	Qual, Anal, Struct	Wilson	JACS 71 (1949)	2231
$C_{14}H_{19}BrO_9$	2,3,4,6-Tetra-O-acetyl-1-bromo-1-deoxy- α -D-galactopyranose	-	S	Band freq, I	Barker	JCS - (1954)	3468
$C_{14}H_{19}BrO_9$	2,3,4,6-Tetra-O-acetyl-1-bromo-1-deoxy- α -D-glucopyranose	-	S	Band freq, I	Barker	JCS - (1954)	3468
$C_{14}H_{19}IO_4$	Iodosobenzene diisobutyrate	665-1755	S, Sol	Assign, I	Bell	JCS - (1960)	1209
$C_{14}H_{19}N$	spiro-(Cyclopentane-1,3'-1',2'-dimethylindoline)	-	-	Group freq	Witkop	JACS 75 (1953)	2572
$C_{14}H_{19}N$	spiro-(Cyclopentane-1,3'-pseudo-1',2'-dihydro-1',2'-dimethylindole)	-	Sol	Band freq	Witkop	JACS 75 (1953)	4474
$C_{14}H_{19}NO$	N-Cyclohexylphenylacetamide	1500-3600 3 μ	S, Sol Sol	Assign, Spec Freq	Richards Russell	JCS - (1947) SA 8 (1956)	1248 138
$C_{14}H_{19}NO \cdot HCl$	β -Piperidenopropiophenone hydrochloride	28 μ	S	Spec	Nakanishi	BCSJ 30 (1957)	403
$C_{14}H_{19}NO_2$	cis-1-Benzyl-2-carboisopropoxy-3-methyl-ethylamine	650-4000	L	Spec	Prostenik	JACS 77 (1955)	1856

$C_{14}H_{19}NO_2$	650-4000	L	Spec	Prostenik	JACS	77 (1955)	1856
trans-1-Benzyl-2-carbo- isopropoxy-3-methyl- ethylenimine							
$C_{14}H_{19}NO_3$	-	Sol	Band freq, I	Ramirez	JACS	77 (1955)	1035
6-(4'-Carbomethoxy)butyl- 2-hydroxy-6,7-dihydro- 1,5H-pyridine							
$C_{14}H_{19}NO_3$	2-15 μ	S	Substitution effect	Wildman	JACS	76 (1954)	152
2,3-Dihydroxy-6-methoxy- 1,2,3,4,4a,9,10,10a- octahydrophenanthridine							
$C_{14}H_{19}NO_3$	2-15 μ	S	Struct	Wildman	JACS	76 (1954)	152
2-(2,3-Dimethoxyphenyl) cyclohexanone oxime							
$C_{14}H_{19}NO_3$	-	-	Group freq	Wiesner	JACS	77 (1955)	675
N-Homoveratrylpyrrolidone							
$C_{14}H_{19}NO_3$	1500-3500	S	Assign, Struct	Cromwell	JACS	80 (1958)	4573
γ -Hydroxy- γ -phenylbut- yromorpholide							
$C_{14}H_{19}NO_4$	962-3545	Sol	Table	Sobin	JACS	76 (1954)	4053
Anisomycin							
$C_{14}H_{19}NO_4$	-	S	Band freq, I	Ramirez	JACS	77 (1955)	1035
6-(4'-Carbomethoxy) butyl-2,5-dihydroxy-6,7- dihydro-1,5H-pyridine							
$C_{14}H_{19}NO_4$	-	-	Group freq	Aparicio	JCS	- (1952)	4666
2,5-Diethoxyquinol mono- (2'-cyano-2'-propyl) ether							
$C_{14}H_{19}NO_4$	1500-3500	S	Band assign, Struct	Cromwell	JACS	80 (1958)	4573
γ -Phenyl- α , γ -dihydroxy- butyromorpholide							
$C_{14}H_{19}NO_5$	-	Sol	Freq	Walker	JACS	77 (1955)	3844
Ethyl 2-acetylamino- 4,5-dimethoxyphenyl- acetate							
$C_{14}H_{19}NS$	650-3600	L	Spec	Ross	JACS	73 (1951)	540
β -Phenylmercapto- α - n-amypropionitrile							

$C_{14}H_{19}N_3O_4$	α -(2'-Nitro-4',5'-dimethoxyphenyl)- γ -dimethylaminobutyronitrile	-	Sol	Freq	Walker	JACS 77 (1955)	3844
$C_{14}H_{19}N_3S \cdot HCl$	Therlypyramine hydrochloride	5-7 μ	Sol	Anal	Parke	AC 23 (1951)	953
$C_{14}H_{19}N_5O_2 \cdot H_2SO_4 \cdot H_2O$	Serotonin creatinine sulfate	800-3600	S	Struct	Speeteo	JACS 73 (1951)	5514
$C_{14}H_{20}$	7-Butyl-1,2,3,4-tetrahydronaphthalene	2-15 μ	-	Struct, Ident	Cagniant	BSCF - (1957)	1403
$C_{14}H_{20}$	1-Ethyl-1-phenylcyclohexane	7.36-13.27 μ	-	Anal	Pines	JACS 77 (1955)	554
$C_{14}H_{20}$	1-Phenyl-2-cyclohexylethane	1400-1900 1.1-1.25 μ	- L	Spec Spec, Anal	Barnes Evans	IEC 15 (1943) AC 23 (1951)	659 1604
$C_{14}H_{20}$	1-Phenyl-3-cyclopentylpropane	1.1-1.25 μ	L	Spec, Anal	Evans	AC 23 (1951)	1604
$C_{14}H_{20}Br_2N_4O$	Pyriithiamine	2-15 μ	S	Qual anal	Wilson	JACS 71 (1949)	2231
$C_{14}H_{20}Cl_2N_2O_2$	2,5-Dichloro-3,6-dibutylamino-p-benzoquinone	-	Sol	Absorption	Buckley	JCS - (1957)	4891
$C_{14}H_{20}N_2O_2$	Acetyl-DL-leucine anilide	2.7-3.2 μ	Sol	Freq	Mizushima	JACS 73 (1951)	1330
$C_{14}H_{20}N_2O_2$	N-Benzoyl- α -methylamino-isobutyryl-N,N-dimethylamide	-	-	Band freq	Berger	JACS 76 (1954)	5552
$C_{14}H_{20}N_2O_2$	3-(β -Dimethylaminoethyl)-5,6-dimethoxyindole	-	-	Freq	Walker	JACS 77 (1955)	3844

Formula	Compound Name	State	Group freq	Author	JACS	Year
$C_{14}H_{20}N_2O_2$	β -Duroylpropionyl-hydrazine	-	Group freq	Fuson	JACS	74 (1952) 1626
$C_{14}H_{20}N_2O_4$	N ^ε -Carbobenzyl-oxy-1-lysine	S	Group freq, I	Witkop	JACS	76 (1954) 5589
$C_{14}H_{20}N_2O_4S_4$	meso-3,4-Di-(5-sulfonamido-2-thienyl)hexane	3-14.5 μ S	Group freq	Sice	JACS	75 (1953) 1628
$C_{14}H_{20}N_2O_6$	N-Hydroxymethylpiperidine N-o-nitromandelate	2-15 μ S	Spec, Freq, Struct	Meinwald	JACS	75 (1953) 485
$C_{14}H_{20}N_6O_4$	6-Dimethylamino-9-(3'-acetamido-3'-deoxy- α -D-arabinafuranosyl)-purine	-	Group freq	Baker	JACS	77 (1955) 2396
$C_{14}H_{20}N_6O_4$	6-Dimethylamino-9-(3'-acetamido-3'-deoxy- α -D-ribofuranosyl)purine	-	Group freq, Ident	Baker	JACS	77 (1955) 2396
$C_{14}H_{20}N_6O_7S$	5',N ⁴ -Cyo1o-3-(2',3'-carbonyl-3'-amino-3'-deoxy- β -D-ribofuranosyl)-4-formamidimidazole-5-(N,N-dimethyl)carboxamide methane-sulfonate	S	Freq	Baker	JACS	77 (1955) 15
$C_{14}H_{20}O$	Amyl p-xylyl ketone	1600-1800 Sol	Group freq	Fuson	JACS	76 (1954) 2526
$C_{14}H_{20}O$	1,2,3,5,6,7,8,9,10,5a,10a,10b-Dodecahydrocyclohept e inden-5-one	- Sol	Band freq	Rosenfelder	JCS	- (1954) 2955
$C_{14}H_{20}O$	Heptyl phenyl ketone	1600-1800 Sol	Group freq	Fuson	JACS	76 (1954) 2526
$C_{14}H_{20}O_2$	1-Amyloxy-3-phenyl-2-propanone	- L	Group freq	Leonard	JACS	77 (1955) 3269

$C_{14}H_{20}O_2$	2,5-Di- <i>t</i> -butyl- <i>p</i> -benzoquinone	- 5-15 μ -	- Sol Sol	Freq Freq Assign	Flagg Yates Flagg	NWS 43 (1956) JACS 78 (1956) A 626 (1959)	467 650 215
$C_{14}H_{20}O_2$	2,6-Di- <i>t</i> -butyl-1,4-benzoquinone	-	-	Band freq	Metro	JACS 77 (1955)	2901
$C_{14}H_{20}O_2$	1,2,3,4,5,6,7,8,9,10,13,14-Dodecahydro-13-hydroxy-2-ketanthracene	-	-	Freq, Struct	Birch	JCS - (1951)	1945
$C_{14}H_{20}O_2$	3-Ethyl-3-hydroxy-2-methyl-1-phenyl-1-pentanone	-	-	Freq	Zimmerman	JACS 76 (1954)	2294
$C_{14}H_{20}O_2S$	Hexylthio <i>o</i> -methoxybenzoate	2.5-16 μ	Sol	Struct, Freq	Nyquist	SA 15 (1959)	514
$C_{14}H_{20}O_3S_2$	3,5(<i>or</i> 6)-bis-(Acetylthio)1,4-metheno-2-cyclohexylethyl ketone	3-11 μ	Sol	Spec	Knuth	JOC 19 (1954)	845
$C_{14}H_{20}O_4$	2-Carboxy-1,3-butadiene dimer	700-3500	L	Spec, Struct	Marvel	JACS 71 (1949)	37
$C_{14}H_{20}O_4$	Cohumulonic acid	3.0-10.9 μ 2.5-15 μ	S Sol	I Struct	Howard Rigby	JCS - (1954) JACS 77 (1955)	2400 2828
$C_{14}H_{20}O_4$	Dihydropicrotoximide	2-13 μ	Sol	Spec, Freq	Conroy	JACS 74 (1952)	491
$C_{14}H_{20}O_4$	<i>cis</i> -2-(2,3-Dimethoxyphenyl)cyclohexane-1,2-diol	-	-	Freq	Ginsburg	JACS 75 (1953)	5746
$C_{14}H_{20}O_4$	1-Methyl-5-isopropenylcyclohexene-3,4-dicarboxylic acid, dimethyl	-	-	Freq, Struct	Bergmann	JCS - (1950)	3455

$C_{14}H_{20}O_5$	3-Oxo-4,4,8- α -trimethyl-5 β [4.3.0]bicyclononane 1 α ,8 β -dicarboxylic acid	-	S	Freq	Aebi	JCS - (1954) 4659
$C_{14}H_{20}O_6$	Tetrahydrofurfuryl fumarate	2-16 μ	L	Spec, Ident	Walton	AC 28 (1956) 1388
$C_{14}H_{20}O_6$	Tetrahydrofurfuryl maleate	2-16 μ	L	Ident, Spec	Walton	AC 28 (1956) 1388
$C_{14}H_{20}O_8$	Methyl 2,3-seco-2,3-dihydroxymethyl-4,6-benzylidene- α -D-glucopyranoside	2-16 μ	-	Spec, Freq, Struct	Rowen	JACS 73 (1951) 4484
$C_{14}H_{20}O_8$	Methyl 1,3-dicarbomethoxy-2,4-cyclobutanediacetate- (α -form)	2-13 μ	S	Spec, Freq, Struct	Reid	JACS 73 (1951) 1985
$C_{14}H_{20}O_8$	Tetraethyl ethylenetetracarboxylate	-	Sol	Freq	Felton	JCS - (1955) 2170
$C_{14}H_{20}O_9$	1,3,4,6-Tetra-O-acetyl-2-deoxy- α -D-glucopyranose	2-15 μ	Sol	Spec, Freq	Abramovitch	CJC 36 (1958) 151
$C_{14}H_{20}O_9$	1,2,3,4-Tetra-O-acetyl-6-deoxy- α -D-galactopyranose	-	S	Freq, I	Barker	JCS - (1954) 3468
$C_{14}H_{20}O_9$	1,2,3,4-Tetra-O-acetyl-6-deoxy- α -D-galactopyranose	-	S	Freq, I	Barker	JCS - (1954) 4211
$C_{14}H_{20}O_{10}$	β -2,3,4,6-Tetraacetyl-d-galactose	6700-7200 7000	Sol	Spec	Hendricks	JACS 58 (1936) 1997
$C_{14}H_{20}O_{10}$	1,2,3,4-Tetra-O-acetyl-D-glucopyranose	-	-	Absorption	Wulf	JCP 6 (1938) 702
$C_{14}H_{20}O_{10}$	α -2,3,4,6-Tetraacetyl-glucose	1000-1800	S	Band freq, I	Barker	JCS - (1954) 3468
$C_{14}H_{20}O_{10}$	α -2,3,4,6-Tetraacetyl-glucose	1000-1800	-	Spec	Barnes	IEC 15 (1943) 659

$C_{14}H_{20}O_{10}$	β -2,3,4,6-Tetraacetyl-d-glucose	6600-7200 7000	Sol -	Spec, Struct Absorption	Hendricks Wulf	JACS 58 (1936) JCP 6 (1938)	1997 702
$C_{14}H_{20}O_{10}$	Tetraacetyl- α -D-talopyranose	2-15 μ	S	Spec, Config	Isbell	JRNB 57 (1956)	179
$C_{14}H_{21}ClO$	2,6-Di-t-butyl-4-chlorophenol	3 μ	S,L, Sol	H bond	Sears	JACS 71 (1949)	4110
$C_{14}H_{21}ClN_2O_2$	2-Chloro-3,6-bis-butyl-amino-p-benzoquinone	-	Sol	Absorption	Buckley	JCS - (1957)	4891
$C_{14}H_{21}Cl_3OSi$	Trichlorosilyloctyl phenyl ether	-	-	Inductive effect	Josien	CPR 249 (1959)	826
$C_{14}H_{21}NO$	Benzo(c)-7-hydroxyazacyclodecane	-	-	Ident	Leonard	JACS 76 (1954)	3193
$C_{14}H_{21}NO$	2-Methyl-2-(2'-methyl-2'-phenylpropyl)oxazolidine	-	Sol	Freq, Ext. coef.	Bergman	JACS 75 (1953)	358
$C_{14}H_{21}NO_2$	Ethyl N,N-isoamylphenyl-carbamate	5-15 μ	L,Sol	Spec	Park	JACS 73 (1951)	5898
$C_{14}H_{21}NO_5$	1,2-Dicarbethoxy-3-octahydropyrrocoline	700-3450	L	Absorption	Edwards	CJC 32 (1954)	785
$C_{14}H_{21}N_3O_2 \cdot 2HCl$	2-Amino-3-(β -dimethylaminoethyl)-5,6-dimethoxyindolenine dihydrochloride	-	S	Freq	Walker	JACS 77 (1955)	3844
$C_{14}H_{21}O_2SB$	n-Octyl-o-phenylene thioborate	6-14 μ	L,S	Freq, Struct	Blau	JCS - (1960)	380
$C_{14}H_{21}O_3B$	n-Octyl-o-phenylene borate	6-14 μ	L,S	Freq, Struct	Blau	JCS - (1960)	380
$C_{14}H_{22}$	m-Di-t-butylbenzene	7.6-14.4 μ	L	Spec Ident, Freq Ident	Pines Bartlett Butler	JACS 71 (1949) JACS 76 (1954) JACS 76 (1954)	3798 2349 1906

Chemical Formula	Chemical Name	Wavenumber Range	State	Ident	Ident	JOC	Year
C ₁₄ H ₂₂	p-Di-sec-butylbenzene	-	-	-	Nightingale	JOC	18 (1953) 1529
C ₁₄ H ₂₂	p-Di-t-butylbenzene	-	-	Band freq	Bomstein	AC	25 (1953) 512
C ₁₄ H ₂₂	2-Phenyl-octane	2-15.5 μ	L	Ident, Spec, Struct	Lenneman	JOC	19 (1954) 463
C ₁₄ H ₂₂	2,2,4-Trimethyl-4-phenylpentane	-	-	Ident, Anal	Pines	JACS	75 (1953) 937
C ₁₄ H ₂₂	o-Phenylene di-n-butylamino boronate	-	-	Ident, Struct	Sanford	JACS	75 (1953) 6326
C ₁₄ H ₂₂ NO ₂ B	o-Phenylene di-n-butylamino boronate	6-14 μ	L, S	Freq, Struct	Blau	JCS	- (1960) 380
C ₁₄ H ₂₂ N ₂ O ₂	3,6-bis-Butylamino-p-benzoquinone	-	Sol	Absorption	Buckley	JCS	- (1957) 4891
C ₁₄ H ₂₂ O	Cycloheptylidencycloheptanone	-	Sol	Freq	Rosenfelder	JCS	- (1954) 2955
C ₁₄ H ₂₂ O	2,4-Di-s-butylphenol	900-1030 650-1400	Sol Sol	Freq Spec	Puttnam Shrewsbury	JCS SA	- (1960) 2934 16 (1960) 1294
C ₁₄ H ₂₂ O	2-t-Butyl-4-s-butylphenol	650-1400	Sol	Spec	Shrewsbury	SA	16 (1960) 1294
C ₁₄ H ₂₂ O	2,4-Di-t-Butylphenol	3 μ 3 μ 2.7-3.2 μ 2.78 μ	S, Sol Sol Sol Sol	Spec, Freq For comparison H bond Temperature related to I	Coggeshall Mckinley Coggeshall Hughes	JACS JACS JACS JCP	69 (1947) 1620 69 (1947) 1624 73 (1951) 5414 24 (1956) 489
C ₁₄ H ₂₂ O	2,6-Di-s-butylphenol	9.24 μ 9.2 μ	Sol Sol	Quant anal Quant anal	Curry Scheddel	AC AC	29 (1957) 1717 29 (1957) 1552
C ₁₄ H ₂₂ O	2,6-Di-t-butylphenol	- 650-1400	Sol Sol	Spec Spec	Goddu Shrewsbury	JACS SA	82 (1960) 4533 16 (1960) 1294
C ₁₄ H ₂₂ O	2,6-Di-t-butylphenol	3500-3800 650-1400	Sol Sol	Freq Spec	Puttnam Shrewsbury	JCS SA	- (1960) 5100 16 (1960) 1294
C ₁₄ H ₂₂ O	2,6-Di-t-butylphenol	12.60 μ 3500-3800	Sol Sol	Quant anal Freq	Curry Puttnam	AC JCS	29 (1957) 1717 - (1960) 5100

$C_{14}H_{22}O$	Erythro-2,5-dimethyl-4-phenyl- β -hexanol	-	S, Sol	Freq, Anal	Cram	JACS 76 (1954)	22
$C_{14}H_{22}O$	Threo-2,5-dimethyl-4-phenyl- β -hexanol	-	L, Sol	Freq, Anal	Cram	JACS 76 (1954)	22
$C_{14}H_{22}O$	1-Erythro- β ,4-dimethyl-4-phenyl- β -hexanol	2-12 μ	Sol	Spec, Iso	Cram	JACS 74 (1952)	5835
$C_{14}H_{22}O$	1-Threo- β ,4-dimethyl-4-phenyl- β -hexanol	2-12 μ	Sol	Spec, Iso	Cram	JACS 74 (1952)	5835
$C_{14}H_{22}O$	β -Methyl- α -ionone	700-1700	-	Spec	Naves	CPR 238 (1954)	1308
$C_{14}H_{22}O$	β -Methyl- β -ionone	700-1700	-	Spec	Naves	CPR 238 (1954)	1308
$C_{14}H_{22}O$	4-Octylphenol	650-1400	Sol	Spec	Shrewsbury	SA 16 (1960)	1294
$C_{14}H_{22}O$	4-t-Octylphenol	3100-3600 3 μ	S, Sol Sol -	Spec, Assign H bond Band freq	Richards Sears Bomstein	JCS - (1947) JACS 71 (1949) AC 25 (1953)	1260 4110 512
$C_{14}H_{22}O$	5-(2,6,6-Trimethyl-1-cyclohexen-1-yl)-4-penten-3-one (α form)	700-1700	-	Spec	Naves	CPR 238 (1954)	1308
$C_{14}H_{22}O$	5-(2,6,6-Trimethyl-2-cyclohexen-1-yl)-4-penten-3-one (β form)	700-1700	-	Spec	Naves	CPR 238 (1954)	1308
$C_{14}H_{22}O_2$	cis- Δ^{13} -Dodecahydro-1,4-dihydroxyphenanthrene	-	-	Band freq	Robins	JCS - (1954)	3960
$C_{14}H_{22}O_2$	cis-Syn- $\Delta^9(14)$ -dodecahydro-1,4-dihydroxyphenanthrene	-	-	Band freq	Robins	JCS - (1954)	3960
$C_{14}H_{22}O_2$	α - β -Ethyl- β -methyl-1-phenyl-1,3-pentandiol	-	-	Freq, Struct	Zimmerman	JACS 76 (1954)	2291

C ₁₄ H ₂₂ O ₂			Freq, Struct	Zimmerman	JACS	76 (1954) 2291
C ₁₄ H ₂₂ O ₂	β-3-Ethyl-2-methyl-1-phenyl-1,3-pentanediol	-				
C ₁₄ H ₂₂ O ₂	trans-anti-cis-Perhydro-1-hydroxy-4-oxophenanthrene	-	Constitution of mixture	Robins	JCS	(1954) 3960
C ₁₄ H ₂₂ O ₂	trans-syn-cis-Perhydro-4-hydroxy-1-oxophenanthrene	-	Constitution of mixture	Robins	JCS	(1954) 3960
C ₁₄ H ₂₂ O ₃	1-Acetoxy-1-acetyldecalin	-	Freq	Coles	JCS	(1954) 2617
C ₁₄ H ₂₂ O ₃	1-Acetoxy-1-acetyl-8-methylhexahydroindane	-	Freq	Coles	JCS	(1954) 2617
C ₁₄ H ₂₂ O ₃	Cyclohexanecarboxylic acid anhydride	2-16μ	Spec	Bartlett	JACS	73 (1951) 4275
C ₁₄ H ₂₂ O ₃	4,6-Di- <i>t</i> -butylpyrogallol	2-15μ	Spec, Freq, Struct	Stitt	JACS	76 (1954) 3642
C ₁₄ H ₂₂ O ₃	2-Methylene-cyclohexanone dimer	-	Freq, Struct	Warnhoff	JACS	75 (1953) 496
C ₁₄ H ₂₂ O ₃	2-Octanoylcyclohexane-1,3-dione	-	Band freq	Rogers	JCS	(1955) 341
C ₁₄ H ₂₂ O ₃	Tetrahydrodesoxy-picotoxinide	2-13μ	Spec	Conroy	JACS	74 (1952) 491
C ₁₄ H ₂₂ O ₃	5-Methylperhydro-(4α,8α)naphthalene-1β,4β-diol-6-one-1-acetate thioenol methyl ether	-	Group freq	Beyler	JACS	74 (1952) 1406
C ₁₄ H ₂₂ O ₄	trans-10-Carbomethoxy-2-decalone-2-dioxolane	5.81-11.0μ	I	Dreiding	JACS	77 (1955) 411

$C_{14}H_{22}O_4$	1,1'-Dihydroperoxy-1,1'-dicyclohexylacetylene	2-6 μ	Sol	Spec	Milas	JACS 74 (1952)	1471
$C_{14}H_{22}O_4$	5-Methyl-1 α ,6 α -epoxy-6-methoxyperhydro-(4a β ,8a β)-naphthalene-4 α -ol-4-acetate	-	-	Freq	Beyley	JACS 74 (1952)	1406
$C_{14}H_{22}O_5$	Diethyl cyclohexanone-2-carboxylate-2- β -propionate	-	L	Band freq	Leonard	JACS 74 (1952)	4070
$C_{14}H_{22}O_5$	Diethyl cyclohexanone-2-carboxylate-6- β -propionate	-	L	Band freq	Leonard	JACS 74 (1952)	4070
$C_{14}H_{22}O_7$	Diethyl 1-carbethoxy-2-ethoxymethylene-succinate	-	L	Band freq	Kornfeld	JOC 19 (1954)	1671
$C_{14}H_{22}O_7$	1,2,3,4-Di-O-isopropylidene-D-galactopyranose-6-monoacetate	2-15 μ	S	Spec	Tipson	JRNB 62 (1959)	257
$C_{14}H_{22}O_8$	Tetraethyl ethanetetra-carboxylate	-	Sol	Freq, Struct	Felton	JCS - (1955)	2170
$C_{14}H_{22}O_8$	(Triethyl citrate)acetate	2-15 μ	L	Spec	Kendall	APS 7 (1953)	179
$C_{14}H_{22}O_9$	Methyl 3,4,6-tri-O-acetyl-2-O-methyl- α -D-glucopyranoside	-	S	Band freq, I	Barker	JCS - (1954)	3468
$C_{14}H_{23}F_3O_3$	Lauroyl trifluoroacetate	-	-	Ident Group freq	Emmons Ferris	JACS 75 (1953)	6047
$C_{14}H_{23}N$	3-Sec-Butylidene-5-ethyl-5-methyl-2-(α -methylvinyl)pyrroline	6.28 μ	Sol	Freq	Meyers	JACS 75 (1953)	232
						JOC 24 (1959)	1233

$C_{14}H_{23}N$	N,N-Di-n-butylaniline	1-12 μ 0.8-2.8 μ	L L	Spec Spec	Bell Ellis	JACS 47 (1925) 2192 JACS 49 (1927) 347
$C_{14}H_{23}N$	3,5-Di-t-butylaniline	-	Sol	Group freq	Bryson	JACS 82 (1960) 4858
$C_{14}H_{23}NO$	Affinin	2-15 μ	Sol	Spec, Struct	Jacobson	JACS 76 (1954) 4606
$C_{14}H_{23}NO$	trans-Affinin	2-15 μ -	Sol -	Spec Ident	Jacobson Jacobson	JACS 76 (1954) 4606 JACS 77 (1955) 2461
$C_{14}H_{23}NO_2$	1,5-di-n-Butoxylaniline	8-2.6 μ	Sol	I, Struct	Whetzel	AC 30 (1958) 1598
$C_{14}H_{23}NO_3$	6-(4'-Carbomethoxy) butyl-2-oxo-octahydro- 1,5H-pyrindine	-	Sol	Band freq, I	Ramirez	JACS 77 (1955) 1035
$C_{14}H_{23}NO_7$	Mycaminose triacetate	81.2-83 μ	-	Iso	Hochestein	JACS 76 (1954) 5080
$C_{14}H_{23}NO_7$	Mycaminose triacetate	93.5-94 μ	-	Iso	Hochestein	JACS 76 (1954) 5080
$C_{14}H_{23}O_3P$	2-Ethylhexyl hydrogen phosphonate	600-5000	L,Sol	Spec, H bond	Peppard	JINC 7 (1960) 60
$C_{14}H_{23}O_4P$	p-Octylphenyl dihydrogen phosphate	670-3500 600-4000	- S	Spec, Assign Group study	Bellamy Braunholtz	JCS - (1953) 728 JCS - (1959) 868
$C_{14}H_{23}O_4P$	[p-(1,1,3,3-Tetramethyl- butyl)phenyl] phosphonic acid	500-4000	Sol	H bond	Peppard	JINC 7 (1958) 231
$C_{14}H_{24}ClNO$	Humulene nitroso chloride	826-1018	S	Table	Fawcett	JCS - (1954) 2673
$C_{14}H_{24}NO_4P$	Diethyl m-diethylamino- phenyl phosphate	-	-	Freq, Assign	Ketelaar	RTC 78 (1959) 190
$C_{14}H_{24}N_2$	3,4-Diethyl-2-piperi- dinomethylpyrrole	500-4000	Sol	Spec, Freq, Struct	Eisner	JCS - (1958) 971
$C_{14}H_{24}OSi$	Trimethylsilylpentyl phenyl ether	-	-	Inductive effect	Josien	CPR 249 (1959) 826

$C_{14}H_{24}O_2$	2-Heptyl-4-methyl- cyclohexane-1,3-dione	1500-1800	Sol	H bond, Spec	DeWilde	SA	12 (1958)	289
$C_{14}H_{24}O_2$	Methyl 3(trans),5(cis)- n-tridecadienoate	9-11 μ 2-16 μ	Sol Sol	Spec, Freq, Config. Spec	Celmer Celmer	JACS JACS	75 (1953) 75 (1953)	1372 3430
$C_{14}H_{24}O_2$	Methyl 3(trans),5-(trans)- n-tridecadienoate	9-11 μ 2-16 μ	Sol Sol	Spec, Freq, Config. Spec	Celmer Celmer	JACS JACS	75 (1953) 75 (1953)	1372 3430
$C_{14}H_{24}O_4$	1,3-Dipropionyloxy-2-neo- pentypropene	-	-	Band freq	Smith	JACS	73 (1951)	5282
$C_{14}H_{24}O_4$	3,3-Dipropionyloxy-2-neo- pentypropene	-	-	Band freq	Smith	JACS	73 (1951)	5282
$C_{14}H_{24}O_6$	Diethyl(1-methyl-3- carboxypropyl)ethyl- malonate	-	-	Ident	Wood	JACS	75 (1953)	5511
$C_{14}H_{25}BrO$	2-Bromocyclootetradeca- none	-	Sol	Freq	Leonard	JACS	80 (1958)	6039
$C_{14}H_{25}NO$	N-Isobutyldeca-cis-2- cis-4-dienamide	726-3285	L	Assign, I	Crombie	JCS	- (1955)	1007
$C_{14}H_{25}NO$	N-Isobutyldeca-cis-2- trans-4-dienamide	729-3285	L	Assign, I	Crombie	JCS	- (1955)	1007
$C_{14}H_{25}NO$	N-Isobutyldeca-trans-2- cis-4-dienamide	729-3285	L	Assign, I	Crombie	JCS	- (1955)	1007
$C_{14}H_{25}NO$	N-Isobutyldeca-trans-2, trans-4-dienamide	- 681-3295	S S	Group freq Assign, I	Crombie Crombie	JCS JCS	- (1955) - (1955)	999 1007
$C_{14}H_{25}NO$	N-Isobutyl-cis-2-cis-6- decadienamide	2.5-14 μ	L	Spec, Freq	Crombie	JCS	- (1952)	4338
$C_{14}H_{25}NO$	N-Isobutyl-trans-2-cis- 6-decadienamide	2.5-16 μ	L	Spec, Freq	Crombie	JCS	- (1952)	4338

$C_{14}H_{25}NO$	N-Isobutyl-2-trans-6-decadienamide	2.5-14 μ	S	Spec, Freq	Crombie	JCS	(1952)	4338
$C_{14}H_{25}NO$	N-Isobutyl-2-decynamide	-	-	Freq	Crombie	JCS	(1952)	2997
$C_{14}H_{25}NO$	N-Isobutyl-cis-2-trans-6-decadienamide	2.5-14 μ	L	Spec, Freq	Crombie	JCS	(1952)	4338
$C_{14}H_{25}NO_2$	Carpaine	2.5-15 μ	S	Spec	Govindachari	JCS	(1954)	1847
$C_{14}H_{25}NO_2$	Pseudoocarpaine	2.5-15 μ	S	Spec	Govindachari	JCS	(1954)	1847
$C_{14}H_{25}N_2PS$	N,N-Diethyl benzenethio-phosphonicdiamide	2-21 μ	S	Spec, Struct	Daasch	AC	23 (1951)	853
$C_{14}H_{26}$	1-Cyclohexyl-3-cyclopentyl-propane	-	-	Freq	Bomstein	AC	25 (1953)	512
$C_{14}H_{26}$	1,1-Dicyclohexylethane	15-35 μ	S	Spec, Struct	Bentley	SA	15 (1959)	165
$C_{14}H_{26}$	1,2-Dicyclohexylethane	8000-9000	Sol	Anal Freq	Hibbard Bomstein	AC AC	21 (1949) 25 (1953)	486 512
$C_{14}H_{26}$	1-Heptylcycloheptene	-	-	Spec, Freq	Brini	BSCF	(1959)	1188
$C_{14}H_{26}ClNO_3$	Ethyl N-chloroacetyl-N-nonylcarbamate	650-4000	Sol	Spec	Pianka	JCS	(1960)	983
$C_{14}H_{26}N_2O_4Si$	Di-t-butoxy-bis-(2-cyanoethoxy)silane	3.45-14.28 μ	L	Freq, I	George	JACS	75 (1953)	6308
$C_{14}H_{26}O$	Cyclotetradecanone	-	Sol	Group study Freq	Leonard Burer	JACS HCA	80 (1958) 43 (1960)	6039 1487
$C_{14}H_{26}O_2$	Vinyl laurate	2.8-3.8 μ	L	Spec, Freq	Adelman	JOC	14 (1949)	1057
$C_{14}H_{26}O_2S_2$	Dihexyldithio oxalate	2.5-16 μ	Sol	Effect of struct	Nyquist	SA	15 (1959)	514
$C_{14}H_{26}O_3$	6-Acetoxy-5-t-butyl 2,2-dimethylhexan-3-one	-	-	Group study	Wiberg	JACS	76 (1954)	5367

				Band freq, Assign	Frisch	JACS	74 (1952)	4853
$C_{14}H_{26}O_3Si_2$	1,3-Dimethyl-1,3-di- (1-hexylyl)disiloxane- 1,3-diol	-	-					
$C_{14}H_{26}O_4$	Diethyl sebacate	2-16 μ	Sol	Spec	Stahl	JACS	74 (1952)	5487
		800-1800	L	Ident, Spec	Stafford	AC	26 (1954)	656
		670-3500	L,S	Spec, Config.	Corish	JCS	- (1958)	927
$C_{14}H_{26}O_4$	Dimethyl decamethylene- dicarboxylate	670-3500	L,S	Spec, Config.	Corish	JCS	- (1958)	927
$C_{14}H_{26}O_7$	Diethylene glycol bis- (n-butyl carbonate)	2-15 μ	L	Spec	Kendall	APS	7 (1953)	179
$C_{14}H_{26}S_2$	Di-(1-methylcyclohexyl) disulfide	-	-	Ident	Moore	JCS	- (1954)	2089
$C_{14}H_{27}N$	ω -Cyclohexylpropyl s-butyl ketimine	-	-	Freq	Pickard	JACS	76 (1954)	5169
$C_{14}H_{27}NO$	N-Isobutyl-cis- Δ^2 - decenamide	-	-	Freq	Crombie	JCS	- (1952)	2997
$C_{14}H_{27}NO$	N-Isobutyl-trans- Δ^2 - decenamide	-	S	Freq	Crombie	JCS	- (1952)	2997
$C_{14}H_{27}NO_2$	1-Ethyl-1-azacyclotri- decan-7-ol-8-one	-	S	Freq	Crombie	JCS	- (1955)	1007
		-	Sol	Freq	Leonard	JACS	76 (1954)	5708
$C_{14}H_{27}N_3O_4$	Glycyl-L-leucyl-L-leucine	650-4000	S	Spec, Struct	Blout	JACS	74 (1952)	1946
$C_{14}H_{27}N_3O_4$	L-Leucylglycyl-L-leucine	650-4000	S	Spec, Struct	Blout	JACS	74 (1952)	1946
$C_{14}H_{27}N_3O_4$	L-Leucyl-L-leucylglycine	650-4000	S	Spec, Struct	Blout	JACS	74 (1952)	1946
$C_{14}H_{27}O_3B$	2-Carbethoxy-1-methyl- vinylbutyl boronite	1500-1800	Sol	Freq, Assign	Duncanson	JCS	- (1958)	3652
$C_{14}H_{28}$	Cyclotetradecane	650-1600	S,L	Spec	Billetter	HCA	41 (1958)	338

Formula	Compound Name	Wavenumber (μ)	Medium	Measurement Type	Journal	Year	Page
C ₁₄ H ₂₈	1,3-Di-t-butylcyclohexane	7.2-12.4	L	Spec	JACS	71 (1949)	3798
C ₁₄ H ₂₈	1,4-Di-t-butylcyclohexane	3.4	Sol	Anal	AC	23 (1951)	1384
C ₁₄ H ₂₈	n-Octylcyclohexane	-	-	Band freq	AC	25 (1953)	512
C ₁₄ H ₂₈	1-Tetradecene	12.6-14.7	L, Sol	Struct, Anal	AC	25 (1953)	1466
C ₁₄ H ₂₈	2,2,4-Trimethyl-4-cyclohexylpentane	3.4	Sol	Anal	AC	23 (1951)	1384
C ₁₄ H ₂₈	1,2-Epoxytetradecane	-	S	Assign	JCP	33 (1960)	298
C ₁₄ H ₂₈ O	Myristyl aldehyde	-	-	Ident	JACS	75 (1953)	937
C ₁₄ H ₂₈ O ₂	Ethyl laurate	2-15	L	Spec	AC	23 (1951)	277
C ₁₄ H ₂₈ O ₂	Lauryl acetate	0.9-3	Sol	Spec	AC	28 (1956)	1533
C ₁₄ H ₂₈ O ₂	Methyl n-tridecanoate	-	L	Peanut oil study	PR	79 (1950)	416
C ₁₄ H ₂₈ O ₂	n-Tetradecanoic acid	1-22	Sol	Spec	JAOC	28 (1951)	154
C ₁₄ H ₂₈ O ₂	α-Hydroxy-myristic acid	1650-1800	Sol	Ext. coefficient	TFS	47 (1951)	354
C ₁₄ H ₂₈ O ₂	Dicyclohexyldimethylsilane	2-16	Sol	Spec, Freq	JACS	74 (1952)	3838
C ₁₄ H ₂₉ Cl ₃ OSi	Trichlorosilyldecyl butyl ether	1-12	Sol	Spec	JAOC	28 (1951)	154
		2-14	S	Spec	AC	24 (1952)	635
		700-3500	S, Sol	Spec, Freq, Struct	JACS	74 (1952)	2570
		710-730	S	Spec, Band study	JCS	- (1957)	4489
		2-15	S	Spec, Qual Anal	AC	29 (1957)	329
		5.5-6.5	Sol	Ident, Band study	AC	31 (1959)	523
		2-3.5	Sol	Spec, H bond	JCP	8 (1940)	577
		3-12	Sol	Spec	BCSJ	27 (1954)	441
		-	-	Inductive effect	CPR	249 (1959)	826

$C_{14}H_{29}NO$	cis-2-Aminocyclo- tetradecanol	-	Sol	Freq, Assign	Sicher	CCCC 24 (1959)	950
$C_{14}H_{29}NO$	trans-2-Aminocyclo- tetradecanol	-	Sol	Freq, Assign	Sicher	CCCC 24 (1959)	950
$C_{14}H_{29}NO$	1-N-Di-n-butylamino- 3,3-dimethyl-2- butanone	-	L	Group freq	Leonard	JACS 77 (1955)	3272
$C_{14}H_{29}NO$	N-Isobutyldecanamide	2.5-14 μ	S	Spec, Band freq	Crombie	JCS - (1952)	4338
$C_{14}H_{29}NO_2$	Dicyclohexylamine ethylene glycol adduct	1000-3750	S	H bond	Nakayawa	BCSJ 33 (1960)	433
$C_{14}H_{29}NO_3$	Lauric acid-acetamide	2-12 μ	S,Sol	Spec, Assign	O'Connor	JACS 77 (1955)	892
$C_{14}H_{30}$	n-Tetradecane	0.75-92 μ 2.6-3.8 μ 8000-9000	L Sol Sol	Struct Spec, Assign Anal	Barnes Fox Hibbard	JACS 50 (1928) PRS 175 (1940) AC 21 (1949)	1033 208 486
		-	-	Freq	Corish	JCS - (1955)	2431
		700-3000	Sol	Ext. Coefficient	Jones	SA 9 (1957)	235
$C_{14}H_{30}O$	n-Tetradecanol	700-1700 3570-3700 700-1500	L,S Sol L	Spec Freq, H bond, I Temp. effect on I	Neully Flynn Hashikuni	CPR 238 (1954) AJC 12 (1959) JPSJ 15 (1960)	65 575 941
$C_{14}H_{30}O_2$	n-Heptyl peroxide	6.74-13.80 μ	-	Absorb, Bands	Welch	JACS 77 (1955)	551
$C_{14}H_{31}N$	Di-n-heptylamine	2-15 μ	L,Sol	Freq, NCA	Stewart	JCP 30 (1959)	1259
$C_{14}H_{31}NO$	2-Hydroxyethyldodecyl- amine	2-16 μ	-	Spec, Group freq	Du Brow	JOC 17 (1952)	1043
$C_{14}H_{32}NO_2PS$	Di-n-butyl diisopropyl phosphoramidothionate	740-1500	Sol	Assign	McIvor	CJC 37 (1959)	869
$C_{14}H_{32}NO_2PS$	O,O-Di-n-butyl diisopropyl phosphoramidothionate	600-1500	Sol	Assign	McIvor	CJC 37 (1959)	869

$C_{14}H_{32}NO_3P$	Diisopropyl dibutyl-aminophosphonate	900-1060	Sol	Freq, I	Halmann	JCS - (1953)	626
$C_{14}H_{32}N_2O$	n-Tridecane-urea adduct	600-4000	S	Spec	Fischer	CJC 38 (1960)	187
$C_{14}H_{32}OSi$	Trimethylsilyldecyl methyl ether	-	-	Inductive effect	Josien	CPR 249 (1959)	826
$C_{14}H_{32}OSi$	Trimethylsilylheptyl butyl ether	-	-	Inductive effect	Josien	CPR 249 (1959)	826
$C_{14}H_{32}OSi$	Trimethylsilylnonyl ethyl ether	-	-	Inductive effect	Josien	CPR 249 (1959)	826
$C_{14}H_{34}NO_3PS$	Triethylammonium di-n-butyl phosphorothioate	740-1500	Sol	Assign	McIvor	CJC 37 (1959)	869
$C_{14}H_{38}O_2Si_4$	Octamethyl-3,10-dioxo-2,4,9,11-tetra-siladodecane	-	-	Freq	Sommer	JACS 77 (1955)	2482
$C_{14}H_{42}O_2Si_6$	Tetradecamethyl-hexasiloxane	2.5-14/L 500-1700 400-1100	Sol L -	Spec Spec, Assign Spec	Wright Richards Kriegsmann	JACS 69 (1947) JCS - (1949) ZE 64 (1960)	803 124 541
$C_{14}H_{42}O_2Si_6$	Dimethoxydodecamethyl-hexasiloxane	700-3500	L	Spec, Struc	Tanaka	BCSJ 31 (1958)	762
$C_{14}H_{42}O_2Si_7$	Tetradecamethylcycloheptasiloxane	2.5-14/L 500-1700	Sol -	Spec Spec, Assign	Wright Richards	JACS 69 (1947) JCS - (1949)	803 124
$C_{14}H_{42}O_4$	Ethylene glycol(heptamer)	700-1600	L	Assign, Conf.	Kuroda	JPS 26 (1957)	323
C_{15} COMPOUNDS							
$C_{15}H_6BrClO_4$	4-Bromo-1-chloro-anthraquinone-2-carboxylic acid	700-4000	S,L	Table, Group freq	Flett	JCS - (1951)	962

$C_{15}H_7NO_2$	1-Cyanoanthraquinone	1684	Sol	Group freq	Flett	JCS - (1948)	1441
$C_{15}H_7NO_2$	3-Cyano-9,10-phenanthraquinone	1600-1800	Sol,S	Group freq	Josien	JCP 21 (1953)	331
$C_{15}H_8O_7$	1,3,8-Trihydroxy-6-carboxylylanthraquinone	2-15 μ	S	Freq, Assign, Ident	Bloom	JCS - (1959)	178
$C_{15}H_9Cl$	9-(Chlorovinylidene)fluorene	-	Sol	Freq	Hennion	JACS 77 (1955)	3253
$C_{15}H_9ClO_2$	1-Chloro-2-methylanthraquinone	1679	Sol	Group freq	Flett	JCS - (1948)	1441
$C_{15}H_9Cl_3N_2O$	9-Trichloroacetamidocridine	-	-	Spec	Sheinker	DANS 131 (1960)	1366
$C_{15}H_9NO_4$	1-Nitro-2-methylanthraquinone	1685	Sol	Group freq	Flett	JCS - (1948)	1441
$C_{15}H_9NO_4$	2-(p-Nitrophenyl)-1,3-indandione	-	-	Spec, Struct	Arens	DANS 132 (1960)	115
$C_{15}H_9NS$	9-Phenanthrenyl isothiocyanate	600-4000	S	Spec.	Ham	SA 16 (1960)	279
$C_{15}H_{10}BrNO$	3-p-Bromophenyl-5-phenylisoxazole	-	Sol	Band freq	Barnes	JACS 76 (1954)	276
$C_{15}H_{10}BrNO$	5-p-Bromophenyl-3-phenylisoxazole	-	Sol	Band freq	Barnes	JACS 76 (1954)	276
$C_{15}H_{10}Br_2O_2$	Dibenzoyldibromomethane	-	-	Group freq	Park	JACS 75 (1953)	475
$C_{15}H_{10}ClN_3$	2,4-Diphenyl-6-chloro-S-triazine	2-15 μ	Sol	Freq assign	Reimschuessel	JACS 82 (1960)	3756

$C_{15}H_{10}ClN_3O_2$	2-Chloro-4,6-di-phenoxy -S-triazine	2-15 μ	Sol	Freq assign	Reimshuessel	JACS 82 (1960)	3756
$C_{15}H_{10}Cl_3NO_2$	2,3,5-Trichloro-6-(2'-N-methylanilino-vinyl)benzoquinone	2200-8000	Sol	Band freq	Buckley	JCS -	(1957) 4891
$C_{15}H_{10}N_2O_2$	2,6-Diphenyl-4-keto-1,3,5-oxadiazine	-	Sol	Group freq, Band freq	Teress	JACS 76	(1954) 580
$C_{15}H_{10}N_2O_2$	Methylene-bis(p-phenyl isocyanate)	-	Sol	Group freq, I	Davison	JCS -	(1953) 3712
$C_{15}H_{10}N_4$	5-Aminopyrido [3,2-a]phenazine	2-15 μ	S	Spec	Drake	JACS 73	(1951) 544
$C_{15}H_{10}N_4$	1,2'-Quinolylbenzo-triazole	650-1000	S	Band freq, H bond Freq	O'Sullivan O'Sullivan	JCS - SA 16	(1960) 3653 (1960) 762
$C_{15}H_{10}N_4O$	6-Amino-4,9,10-triaza-3-hydroxy-1,2-benzanthracene	-	-	Group study, Struct	Osdere	JCS -	(1955) 2214
$C_{15}H_{10}N_4O$	7,8-Dihydro-7-methyl-8-oxo-5,7,9,10-tetra-aza-1,2-benzanthracene	-	-	Group freq, Struct	Felton	JCS -	(1954) 2895
$C_{15}H_{10}O$	9-Anthraldehyde	-	-	Freq, Struct	Greene	JACS 77	(1955) 3852
$C_{15}H_{10}O$	9-Phenanthrene-carboxaldehyde	970-3500	Sol,S	Spec, Band freq	Hunsberger	JACS 74	(1952) 4839
$C_{15}H_{10}O_2$	Flavone	-	Sol L	Freq Freq	Shaw Inglett	JCS - JOC 23	(1955) 655 (1958) 93
$C_{15}H_{10}O_2$	10-Hydroxy-9-phenanthrene-carboxaldehyde	670-3500	Sol,S	Spec, Band freq	Hunsberger	JACS 74	(1952) 4839

$C_{15}H_{10}O_2$	1-Methylanthraquinone	1676	Sol	Group freq Spec, H bond	Flett Shigorin	JCS - (1948) 1441 DANS 132 (1960) 1372
$C_{15}H_{10}O_2$	2-Methylanthraquinone	1676 1600-1800 2-15 μ	Sol Sol S	Group freq Group freq Freq, Assign, Ident	Flett Josien Bloom	JCS - (1948) 1441 JCP 21 (1953) 331 JCS - (1959) 178
$C_{15}H_{10}O_3$	Diphenyl triketone	5.6-6.2 μ	Sol	Spec	Davies	TFS 36 (1940) 1114
$C_{15}H_{10}O_3 \cdot H_2O$	Diphenyl triketone hydrate	2.7-6.2 μ	Sol	Spec	Davies	TFS 36 (1940) 1114
$C_{15}H_{10}O_3$	3-Hydroxyflavone	-	Sol	Freq	Shaw	JCS - (1955) 655
$C_{15}H_{10}O_3$	5-Hydroxyflavone	-	Sol	Freq	Shaw	JCS - (1955) 655
$C_{15}H_{10}O_3$	1-Hydroxy-2-methylanthraquinone	2-15 μ	S	Freq, Assign	Bloom	JCS - (1959) 178
$C_{15}H_{10}O_3$	2-Hydroxy-3-methylanthraquinone	2-15 μ	S	Freq, Assign	Bloom	JCS - (1959) 178
$C_{15}H_{10}O_3$	1-Methoxyanthraquinone	1675	Sol Sol -	Group freq Group study Spec, H bond	Flett Wiles Shigorin	JCS - (1948) 1441 JCS - (1956) 4811 DANS 132 (1960) 1372
$C_{15}H_{10}O_3$	2-Methoxyanthraquinone	1675	Sol Sol	Group freq Group study	Flett Wiles	JCS - (1948) 1441 JCS - (1956) 4811
$C_{15}H_{10}O_3S$	Methyl anthraquinone-1-sulfenate	5-8 μ	Sol	Struct	Bruice	JACS 81 (1959) 3416
$C_{15}H_{10}O_4$	Benzil-o-carboxylic acid (keto)	-	S	Group freq, Taut	Grove	JCS - (1951) 877
$C_{15}H_{10}O_4$	Benzil-o-carboxylic acid (lactol)	-	S	Group freq, Taut	Grove	JCS - (1951) 877

C ₁₅ H ₁₀ O ₄	-	Sol	Group freq, H bond, I	Sorrle	JCS - (1955)	2244
1',4'-Dihydroxy-1,2,4,5-dibenzocycloheptadiene-3,7-dione						
C ₁₅ H ₁₀ O ₄	-	Sol	Freq	Shaw	JCS - (1955)	655
3,5-Dihydroxyflavone						
C ₁₅ H ₁₀ O ₄	2-15 μ	S	Freq, Assign	Bloom	JCS - (1959)	178
1,3-Dihydroxy-2-methylanthraquinone						
C ₁₅ H ₁₀ O ₄	2-15 μ	S	Freq, Assign	Bloom	JCS - (1959)	178
1,8-Dihydroxy-3-methylanthraquinone						
C ₁₅ H ₁₀ O ₅	-	-	Group freq, Band freq	Briggs	JCS - (1953)	3068
1,3-Dihydroxy-2-hydroxymethylanthraquinone	2-15 μ	S	Freq, Assign	Bloom	JCS - (1959)	178
C ₁₅ H ₁₀ O ₅	2-15 μ	S	Freq, Assign	Bloom	JCS - (1959)	178
1,3-Dihydroxy-2-methoxyanthraquinone						
C ₁₅ H ₁₀ O ₅	2-15 μ	S	Freq, Assign	Bloom	JCS - (1959)	178
1,2,5-Trihydroxy-6-methylanthraquinone						
C ₁₅ H ₁₀ O ₅	2-15 μ	S	Freq, Assign	Bloom	JCS - (1959)	178
1,3,8-Trihydroxy-6-methylanthraquinone						
C ₁₅ H ₁₀ O ₅	2-15 μ	S	Freq, Assign	Bloom	JCS - (1959)	178
1,4,5-Trihydroxy-2-methylanthraquinone						
C ₁₅ H ₁₀ O ₅	2-15 μ	S	Freq, Assign	Bloom	JCS - (1959)	178
1,4,5-Trihydroxy-2-methylanthraquinone						
C ₁₅ H ₁₀ O ₆	-	L	Freq	Inglett	JOC 23 (1958)	93
Luteolin						

$C_{15}H_{10}O_6$	1,2,3,5-Tetrahydroxy-6-methylanthraquinone	2-15 μ	S	Freq, Assign	Bloom	JCS - (1959)	178
$C_{15}H_{10}O_6$	1,2,3,7-Tetrahydroxy-6-methylanthraquinone	2-15 μ	S	Freq, Assign	Bloom	JCS - (1959)	178
$C_{15}H_{10}O_6$	1,4,5,7-Tetrahydroxy-2-methylanthraquinone	2-15 μ	S	Freq, Assign	Bloom	JCS - (1959)	178
$C_{15}H_{10}O_6$	1,4,5,8-Tetrahydroxy-2-methylanthraquinone	2-15 μ	S	Freq, Assign	Bloom	JCS - (1959)	178
$C_{15}H_{10}O_6$	3,4,5,7-Tetrahydroxy-2-methylanthraquinone	789-3367	S	Band freq	Briggs	JCS - (1953)	3069
$C_{15}H_{10}O_6$	1,3,8-Trihydroxy-6-methylanthraquinone	2-15 μ	S	Freq, Assign	Bloom	JCS - (1959)	178
$C_{15}H_{10}O_7$	3,3',4',5,7-Penta-hydroxyflavone	1550-4000	S	Group freq	Hergert	JACS 75 (1953)	1622
$C_{15}H_{10}O_7$	3,3',4',5,8-Penta-hydroxyflavone	1550-4000	S	Group freq	Hergert	JACS 75 (1953)	1622
$C_{15}H_{10}O_7$	Quercetin	-	L	Freq	Inglett	JOC 23 (1958)	93
$C_{15}H_{10}O_7$	1,4,5,7-Tetrahydroxy-2-hydroxymethyl-anthraquinone	2-15 μ	S	Freq, Assign	Bloom	JCS - (1959)	178
$C_{15}H_{11}BrN_4O_4$	2-Bromo-1-indanone syn-2,4-dinitrophenylhydrazone	-	Sol	Band freq	Ramirez	JACS 75 (1953)	6026

C ₁₅ H ₁₁ BrO ₂	2-7 μ	Sol	Group freq	Barnes	JACS 75 (1953)	479
1-Phenyl-3-p-bromo-phenyl-1-propene-1-ol-3-one						
C ₁₅ H ₁₁ ClN ₄	2-15 μ	S	Freq assign	Reimschuessel	JACS 82 (1960)	3756
N-Phenyl-2-phenyl-6-chloro-4-amino-S-triazine						
C ₁₅ H ₁₁ ClO	-	-	Struct	Rorig	JACS 75 (1953)	5381
4-Chlorochalcone						
C ₁₅ H ₁₁ ClO ₂	-	-	Group freq, Ident	Fuson	JOC 18 (1953)	1762
p-Chlorophenyl cinnamate						
C ₁₅ H ₁₁ I ₄ N ₄	5-15 μ	S	Spec	Wang	JACS 74 (1952)	2445
DL-Thyroxine						
C ₁₅ H ₁₁ I ₄ N ₄	5-15 μ	S	Spec	Wang	JACS 74 (1952)	2445
DL-Thyroxine-1-C ¹⁴						
C ₁₅ H ₁₁ N	-	-	Band freq	Hauser	JOC 23 (1958)	2006
1-Cyano-1,2-diphenyl-ethylene						
C ₁₅ H ₁₁ N	2-15 μ	L,Sol	Spec, Assign	DeTar	JACS 78 (1956)	475
2-Cyanostilbene (cis & trans)						
C ₁₅ H ₁₁ N ₂	1102-1633	S	Table	Cronwell	JACS 76 (1954)	5752
2-Phenyl-4-hydroxy-quinoline						
C ₁₅ H ₁₁ N ₂	-	S	Spec, Freq	Price	AJC 12 (1959)	589
2-Phenyl-4-quinolone						
C ₁₅ H ₁₁ N ₂	700-4000	S,Sol	Freq, Struct, Assign			
Benzoate indoxyl ester						
C ₁₅ H ₁₁ N ₂	-	-	Spec	Illuminate	JACS 74 (1952)	2896
2-(2,4-Dihydroxy-phenyl)quinoline						
C ₁₅ H ₁₁ N ₂	1635-300	-	Freq	Flett	JCS - (1948)	1441
1-Methylaminoanthraquinone						
C ₁₅ H ₁₁ N ₃	2700-3900	Sol	Spec, H bond	Buswell	JACS 60 (1938)	2444
Diphenyl triketone oxime						

$C_{15}H_{11}NO_3$	2-Nitro-7-acetyl-fluorene	-	-	Ident	Sawicki	JACS	76 (1954)	2269
$C_{15}H_{11}NO_3$	β -Nitrobenzalacetophenone	-	-	Group freq, Iso	Smith	JACS	76 (1954)	5376
$C_{15}H_{11}NO_3$	o-Nitrobenzalacetophenone	-	Sol	Group freq	Cromwell	JACS	76 (1954)	5752
$C_{15}H_{11}NO_4$	9-Keto-10-nitromethyl-9,10-dihydrophenanthrol-10	6500-7000	Sol	Spec, H bond	Hilbert	JACS	58 (1936)	548
$C_{15}H_{11}NO_4$	cis-o-Nitrobenzalacetophenone oxide	-	Sol	Freq	Cromwell	JACS	76 (1954)	5752
$C_{15}H_{11}NO_4$	trans-o-nitrobenzalacetophenone oxide	-	Sol	Freq	Cromwell	JACS	76 (1954)	5752
$C_{15}H_{11}N_3$	5-Aminobenzo (e) pyrido (a) benzimidazole	-	S	Group freq	Adams	JACS	76 (1954)	702
$C_{15}H_{11}N_3$	α -Benzylidenebenzene-diazomethyl cyanide	650-4000	S, Sol	Freq, H bond, Spec	Tanner	SA	15 (1959)	20
$C_{15}H_{11}N_3O$	1-Cyano-2-phenylglyoxal-1-phenylhydrazone	650-4000	S, Sol	Freq, H bond	Tanner	SA	15 (1959)	20
$C_{15}H_{11}N_3O$	β -Phenylazo-8-hydroxyquinoline	3300-3400	Sol	Freq, H bond, I	Badger	JCS	- (1958)	3437
$C_{15}H_{11}N_5O_{10}S$	bis-DNP-L-cysteine	625-5000	S	Spec, Ident	Friedberg	CJC	37 (1959)	1469
$C_{15}H_{11}O_5$	Pelargonidin	1000-1800	S	Spec	Gayon	BSCF	- (1960)	934
$C_{15}H_{11}O_6$	Cyanidin	1000-1800	S	Spec	Gayon	BSCF	- (1960)	934

C ₁₅ H ₁₁ O ₇	Delphinidin	1000-1800	S	Spec	Gayon	BSCF	(1960)	934
C ₁₅ H ₁₂	Fluorene-9-spiro-cyclopropane	-	S	Ident	Greenhow	JCS	(1952)	986
C ₁₅ H ₁₂	1-Methylanthracene	3.0-14 μ 1375-1530	S, Sol	Spec, Table Ext coefficient	Mosby Moritz	JOC SA	18 (1953) 16 (1960)	964 74
C ₁₅ H ₁₂	2-Methylanthracene	2700-3000	Sol	Spec	Badger	SA	15 (1959)	672
C ₁₅ H ₁₂	9-Methylanthracene	3-15 μ 2700-3000	S	Spec, Group freq	Roitt	JCS	(1952)	2695
C ₁₅ H ₁₂	meso-Methyl-anthracene	-	-	Spec	Badger	SA	15 (1959)	672
C ₁₅ H ₁₂	1-Methylene-2,3,6,7-dibenzcycloheptatriene	2-16 μ	Sol	Spec	Buu-hoi	BSCF	(1958)	1404
C ₁₅ H ₁₂	1-Methylphenanthrene	650-2000	S, Sol	Spec	Cope	JACS	73 (1951)	1673
C ₁₅ H ₁₂	3-Methylphenanthrene	650-2000	S	Spec	Cannon	SA	4 (1951)	373
C ₁₅ H ₁₂	9-Methylphenanthrene	650-2040 2-15 μ 2700-3000	Sol	Spec Struct, Ident Spec	Cannon Cagniant Badger	SA BSCF SA	4 (1951) (1957) 15 (1959)	373 1403 672
C ₁₅ H ₁₂ BrNO	3-p-Bromophenyl-5-phenylisooxazoline	-	Sol	Band freq	Barnes	JACS	76 (1954)	276
C ₁₅ H ₁₂ BrNO	5-p-Bromophenyl-3-phenylisooxazoline	-	Sol	Band freq	Barnes	JACS	76 (1954)	276
C ₁₅ H ₁₂ F ₃ NO	4-Acetamido-3-trifluoromethyl-diphenyl	-	-	Freq	Randle	JCS	(1955)	1311
C ₁₅ H ₁₂ N	4-Anilinoquinoline	1300-1700	Sol	Freq	Katritzky	JCS	(1960)	2942

$C_{15}H_{12}N_2$	2,4(5)-Diphenyl- imidazole (m.p. 179°)	2-12 μ	S	Spec	Haines	JACS 71 (1949)	2793
$C_{15}H_{12}N_2$	2,4-Diphenyl- imidazole (m.p. 194°)	2-12 μ	S	Spec	Haines	JACS 71 (1949)	2793
$C_{15}H_{12}N_2$	2,5-Diphenyl- imidazole	2-12 μ	S	Spec	Haines	JACS 71 (1949)	2793
$C_{15}H_{12}N_2$	2-Naphthylmethyl- (methylmalono- nitrile	-	-	Group freq, I	Westfahl	JACS 77 (1955)	936
$C_{15}H_{12}N_2O$	9-Acetamidocridine	-	-	Spec	Sheinker	DANS 131 (1960)	1366
$C_{15}H_{12}N_2O$	N-Benzoyl-N-phenyl glycinnitrile	-	-	Group freq	Elliott	JACS 77 (1955)	4408
$C_{15}H_{12}N_2OS$	2-Anilino-5-phenyl- 4(5)thiazolone	650-4000	S	Spec	Taylor	JACS 76 (1954)	1866
$C_{15}H_{12}N_2OS$	2-Imino-3,5-diphenyl- 4-thiazolidone	650-4000	S	Spec, Ident	Taylor	JACS 76 (1954)	1866
$C_{15}H_{12}N_2OS$	4-o-Mercaptophenyl- 1-phenylpyrazolone	-	-	Group study	Glauert	JCS - (1952)	2401
$C_{15}H_{12}N_2O_2$	3-Benzylbenzoylene- urea	2-16 μ	S	Spec, Group freq	Staiger	JOC 18 (1953)	1427
$C_{15}H_{12}N_2O_2$	4-(α -Cyano- α -benzoxy- ethyl)pyridine	600-4000	Sol	Group freq, Substitution	Katritzky	JCS - (1958)	4155
$C_{15}H_{12}N_2O_3$	2-Benzoyl-3-p-nitro- phenylazacyclo- nonane	700-4000	Sol	Spec, Freq	Adelfang	JACS 82 (1960)	4241

$C_{15}H_{12}N_2O_3$	N,N'-Dibenzoylurea	-	Sol	Ident	Teress	JACS	76 (1954)	580				
$C_{15}H_{12}N_2O_3$	Hydrofuramide	2-12 μ	S	Spec	Rogers	JACS	60 (1938)	2619				
$C_{15}H_{12}N_2O_5$	3-Benzoyloxy-2, ω -dinitrostyrene	6.06-11.77	Sol	Table, Band freq, I	Ek	JACS	76 (1954)	5579				
$C_{15}H_{12}N_2O_5$	o-Methylpolystylictin	670-3600	S	Spec, Group freq, Struct	Cavill	JCS	- (1953)	525				
$C_{15}H_{12}N_2O_6$	N-Anisoyl-o-(p-nitrobenzoyl)hydroxylamine	1550-4000	-	Spec	Leffler	JACS	72 (1950)	4294				
$C_{15}H_{12}N_2O_6$	N-(4,5-Methylene-dioxy-2-nitrobenzoyl)-p-methylaminophenol	700-3000	S,Sol	Group freq	Briggs	AC	29 (1957)	904				
$C_{15}H_{12}N_4O$	2-Phenyl-4-amino-6-phenoxy-S-triazine	2-15 μ	S	Vibrational assign.	Reimschuessel	JACS	82 (1960)	3756				
$C_{15}H_{12}N_4O_4$	Cinnamaldehyde-2,4-dinitrophenyl-hydrazone	2-15 μ	S	Band spec, Ident	Jones	AC	28 (1956)	191				
$C_{15}H_{12}N_4O_4$	1-Indanone syn-2,4-dinitrophenyl-hydrazone	-	Sol	Band freq	Ramirez	JACS	75 (1953)	6026				
$C_{15}H_{12}N_4O_4$	1-Phenyl-1-(2',4'-dinitrophenylazo)propene-1	-	Sol	Group freq	Ramirez	JACS	75 (1953)	6026				
$C_{15}H_{12}N_4O_4$	Phenyl vinyl ketone-2,4-dinitrophenyl-hydrazone	-	Sol	Band freq	Ramirez	JACS	75 (1953)	6026				

$C_{15}H_{12}N_8O_8$	6-15 μ	S	Spec, Table	Ross	AC	25 (1953)	1288
Pyruvic aldehyde di- 2,4-dinitrophenyl- hydrazone	3-10 μ	S	Spec	Taschck	JCP	7 (1939)	11
Benzalacetophenone	-	Sol	Freq	Berson	JACS	74 (1952)	358
	1550-4000	S	Group freq	Hergert	JACS	75 (1953)	1622
	-	Sol	Group freq	Bellamy	JCS	- (1954)	4487
	650-1740	Sol	Freq, Spec	Bellamy	JCS	- (1955)	4221
	-	Sol	Spec, Group freq	Potts	SA	15 (1959)	679
$C_{15}H_{12}O$	6.04-14.50 μ S		Group freq, Table	Kuhn	JACS	72 (1950)	5058
cis-Benzalacetophenone	6.06-14.6 μ S		Table, Group freq	Kuhn	JACS	72 (1950)	5058
trans-Benzalaceto- phenone	-	-	Ident	Cross	JCS	- (1954)	4670
Gibberenone	-	S	Group freq	Mulholland	JCS	- (1954)	4676
9-Hydroxymethyl- anthracene	-	-	Ident, Struct	Greene	JACS	77 (1955)	3852
α -Phenylacrylo- phenone	-	Sol	Group freq	Russell	JACS	76 (1954)	5714
cis-2-Carboxy- stilbene	2-15 μ	Sol	Assign, Spec	Dator	JACS	78 (1956)	475
Benzalacetophenone oxide	2-16 μ	Sol	Spec, Group freq	Berson	JACS	74 (1952)	5175
cis-1,3-Diphenyl-2,3- epoxypropan-1-one	2-15 μ	Sol	Spec, Struct, Group freq	Wasserman	JACS	75 (1953)	96
$C_{15}H_{12}O_2$	-	-	Ident	Wasserman	JACS	77 (1955)	590
trans-1,3-Diphenyl- 2,3-epoxypropan-	-	S	Freq	Cromwell	JOC	17 (1952)	414
	-	-	Ident	Wasserman	JACS	77 (1955)	590

$C_{15}H_{12}O_2$	1,3-Diphenyl-1,3-propanedione	- 2.7-4.1 μ	Sol	Group study Spec, H bond Freq, Struct Group freq Group freq	Buswell Wall Rasmussen Park Bellamy	JACS 59 (1937) 1767 JACS 61 (1939) 2812 JACS 71 (1949) 1068 JACS 75 (1953) 4753 JCS - (1954) 4487
$C_{15}H_{12}O_2$	1,3-Diphenyl-1-propene-1-ol-3-one	2-7 μ	Sol	Group freq	Barnes	JACS 75 (1953) 478
$C_{15}H_{12}O_2$	1,3-Diphenyl-1-propene-2-ol-3-one	2-7 μ	Sol	Group freq	Barnes	JACS 75 (1953) 478
$C_{15}H_{12}O_2$	α, β -Epoxy- α -phenyl-propiphenone	1600-1800	Sol	Freq, Assign, Iso	House	JACS 80 (1958) 6389
$C_{15}H_{12}O_2$	Flavanone	1550-4000	S	Group freq Group freq Group freq	Hergert Shaw Inglett	JACS 75 (1953) 1622 JCS - (1955) 655 JOC 23 (1958) 93
$C_{15}H_{12}O_2$	α -Formyldeoxybenzoïn	3.8-14.59 μ S	S	I, Ident	Russell	JACS 76 (1954) 5714
$C_{15}H_{12}O_2$	β -Formyldeoxybenzoïn	3.8-14.33 μ S	S	I, Ident	Russell	JACS 76 (1954) 5714
$C_{15}H_{12}O_2$	4-Methoxyanthrone	1658	S	Group freq	Flett	JCS - (1948) 1441
$C_{15}H_{12}O_2$	Phenyl cinnamate	-	-	Group freq	Fuson	JOC 18 (1953) 1762
$C_{15}H_{12}O_2$	2-Phenyl-3-hydroxyindone	-	-	Spec	Bergmann	BSCF - (1959) 634
$C_{15}H_{12}O_2$	trans-Stilbene-2-carboxylic acid	2-15 μ	Sol	Freq Assign, Spec	DeTar DeTar	JACS 77 (1955) 4410 JACS 78 (1956) 475
$C_{15}H_{12}O_2S$	β -Phenylthio-cinnamic acid	-	-	Group freq, Struct	Campaigne	JACS 76 (1954) 1272

$C_{15}H_{12}O_3$	2-Acetoxybenzo-phenone	-	-	Band freq, Ident	DeTar	JACS 75 (1953) 5117
$C_{15}H_{12}O_3$	2-Benzoyaceto-phenone	1550-4000	S	Group freq	Hergert	JACS 75 (1953) 1622
$C_{15}H_{12}O_3$	2,5-Diphenyl-1,3-dioxol-4-one	-	-	Freq	Fuson	JACS 77 (1955) 3131
$C_{15}H_{12}O_3$	5-Hydroxyflavanone	-	Sol	Freq	Shaw	JCS - (1955) 655
$C_{15}H_{12}O_3$	4-Methoxyxanthrone	1653-1678	S,Sol	Group freq	Flett	JCS - (1948) 1441
$C_{15}H_{12}O_3$	mono-(o-Carbomethoxy)diphenyl ketone	5.97 μ	-	Band freq	Woodward	JACS 74 (1952) 3458
$C_{15}H_{12}O_3$	3-Phenyl-4-hydroxy-coumarin	2-12 μ	Sol	Spec, Freq	Wildi	JOC 16 (1951) 407
$C_{15}H_{12}O_4$	p-Benzoylphenoxy-acetic acid	-	Sol	H bond	Oki	BCSJ 33 (1960) 119
$C_{15}H_{12}O_4$	3',4'-Dihydroxy-flavanone	1550-4000	S	Group freq, H bond	Hergert	JACS 75 (1953) 1622
$C_{15}H_{12}O_4$	2',3,4-Trihydroxy-benzalaceto-phenone	1550-4000	S	Group freq	Hergert	JACS 75 (1953) 1622
$C_{15}H_{12}O_5$	1,8-Dimethoxy-4-methylnaphthalene-2,3-dicarboxylic acid anhydride	-	Sol	Group freq	Hochstein	JACS 75 (1953) 5455
$C_{15}H_{12}O_6$	2',3,3',4,4'-Penta-hydroxybenzal-acet onhenone	1550-4000	S	Group freq	Hergert	JACS 75 (1953) 1622

$C_{15}H_{12}O_6$	1550-4000	S	Group freq, H bond	Hergert	JACS	75 (1953)	1622
3',4',5,7-Tetrahydroxyflavanone	1550-4000	S	Group freq, H bond	Hergert	JACS	75 (1953)	1622
d-Dihydroquercetin-cis	700-4000	S	Group freq, H bond Spec, Struct, Assign Ident	Hergert Kurth	JOC JACS	18 (1953) 77 (1955)	521 1621
α -Bromopropiophenone	-	Sol	Band freq	Ramirez	JACS	75 (1953)	6026
anti-2,4-dinitrophenylhydrazone	2-16 μ	Sol	Spec, Freq	Ramirez	JACS	76 (1954)	1037
9,1'-Chloroethylfluorene	-	-	Ident	Greenhow	JCS	- (1954)	3116
3-Chloro-2-hydroxy-1,3-diphenylpropanone	-	-	Freq	House	JACS	76 (1954)	1235
1-Chloro-6-hydroxy-2,4-dimethoxy-8-methyldibenzofuran	-	-	Ident	MacMillan	JCS	- (1954)	429
7-Chloro-6-hydroxy-4-methoxy-2'-methylgrisan-3,4',6'-trione	-	Sol	Struct Spec	Grove Duncanson	JCS JCS	- (1952) - (1957)	3977 3555
Diiodothyronine	5-15 μ	S	Spec	Wang	JACS	74 (1952)	2445
DL-Diiodothyronine-1-C ¹⁴	5-15 μ	S	Spec	Wang	JACS	74 (1952)	2445
Diphenyl ketene-N-methyl imine	-	-	Group freq	Stevens	JACS	76 (1954)	4398
2-Phenyiskatole	-	-	Spec	Witkop	JACS	74 (1952)	3855

$C_{15}H_{13}NO$	7-Benzyl oxyindole	2.86-10.32 μ Sol	Table, I	Ek	JACS 76 (1954)	5579
$C_{15}H_{13}NO$	2-Phenyl-4-methyl-1,3,4a-d-benzoxazine	6.15-11.78 μ Sol	Table, I	Patrick	JOC 76 (1954)	1824
$C_{15}H_{13}NO_2$	N-Acetoxydiphenyl methyl imine	- S	Freq	Freeman	JACS 80 (1958)	5954
$C_{15}H_{13}NO_2$	o-Benzylaminoacetophenone	-	Spec	Witkop	JACS 74 (1952)	3855
$C_{15}H_{13}NO_2$	Dehydro-apo- β -erythroidine	2-15 μ S	Spec, Struct	Grundon	JACS 74 (1952)	2637
$C_{15}H_{13}NO_2$	2-Hydroxy-3-acetylaminofluorene	-	Group freq	Weisburger	JACS 77 (1955)	1914
$C_{15}H_{13}NO_3$	N-Acetyl-o-benzoyl-o-aminophenol	- Sol	Spec, Band freq	Witkop	JACS 74 (1952)	3861
$C_{15}H_{13}NO_3$	N-Benzoyl-O-acetyl-o-aminophenol	- Sol	Spec, Band freq	Witkop	JACS 74 (1952)	3861
$C_{15}H_{13}NO_3$	2-Hydroxybenzophenone oxime acetate	6700-7200 Sol	Spec, H bond	Hendricks	JACS 58 (1936)	1991
$C_{15}H_{13}NO_3$	ω -(o-Nitrobenzyl)acetophenone	- Sol	Group freq	Cromwell	JACS 76 (1954)	5752
$C_{15}H_{13}NO_3S$	1-Benzenesulfonyl-1,2,3,4-tetrahydro-4-oxoquinoline	600-1700 S	Spec, Struct	Braunholtz	JCS - (1957)	4166
$C_{15}H_{13}NO_4$	2,2'-Dihydroxybenzophenone oxime acetate	6800-7200 Sol	Spec, H bond	Hendricks	JACS 58 (1936)	1991

C ₁₅ H ₁₃ N ₃ O ₄ S	10-Ethylphenothiazine-4-carboxylic acid-5-dioxide	-	-	Group study, Ident	Gilman	JOC	19 (1954)	560
C ₁₅ H ₁₃ N ₃	3-Phenyl-5-p-tolyl-1,2,4-triazole	-	-	Group freq	Potts	JCS	- (1954)	3461
C ₁₅ H ₁₃ N ₃ O	α-Azido-α-phenyl-propiofenone	-	-	Group freq	Boyer	JACS	75 (1953)	1642
C ₁₅ H ₁₃ N ₃ O ₆	DNP-dl-phenylalanine	625-5000	S	Spec, Ident	Friedberg	CJC	37 (1959)	1469
C ₁₅ H ₁₃ N ₃ O ₆	DNP-l-phenylalanine	625-5000	S	Spec, Ident	Friedberg	CJC	37 (1959)	1469
C ₁₅ H ₁₃ N ₃ S	2(3)-Imino-3,5-diphenyl-4-amino-thiazoline	650-4000	S	Spec	Taylor	JACS	76 (1954)	1866
C ₁₅ H ₁₃ N ₃ S	4-Thiocyanatoozo-toluene	600-1700	S	Spec, Freq	Le Fevre	AJC	10 (1957)	26
C ₁₅ H ₁₄	9,10-Dihydro-9-methyl-anthracene	3-15 μ	S	Spec, Group freq	Roitt	JOS	- (1952)	2695
C ₁₅ H ₁₄	9,9-Dimethylfluorene	700-1400	Sol	Spec	Scherf	CJC	38 (1960)	697
C ₁₅ H ₁₄	Gibberene	-	-	Ident	Cross	JCS	- (1954)	4670
C ₁₅ H ₁₄	4-Methyl-trans-stilbene	-	-	Ident	Mulholland	JCS	- (1954)	4676
C ₁₅ H ₁₄	4-Methyl-trans-stilbene	960	Sol	Group study	Orr	SA	8 (1956)	218
C ₁₅ H ₁₄ ClNO ₂	o-(2-Ethoxybenzamido)chlorobenzene	-	-	Group freq	Hein	JACS	76 (1954)	2725
C ₁₅ H ₁₄ ClO ₄	Isodecarboxygriseofulvic acid	-	S	Group freq, Struct	Grove	JOS	- (1952)	3977

$C_{15}H_{14}F_{14}O_4$	bis-2,2,3,3,4,4,4-Heptafluorobutyl pimelate	-	L	Group freq	Rappapert	JACS 75 (1953)	2695
$C_{15}H_{14}N_2$	Dibenzyl carbodiimide	2000-2300	Sol	I, Sym	Meakins	JCS - (1957)	993
$C_{15}H_{14}N_2$	5-Dimethylamino-acridine	6.15-7.98 μ	S	Table, Band freq	Acheson	JCS - (1954)	3742
$C_{15}H_{14}N_2$	1,5-Diphenyl-2-pyrazoline	-	-	Group freq	Snyder	JACS 74 (1952)	3243
$C_{15}H_{14}N_2$	Di-p-tolyl carbodiimide	-	-	Group freq	Khorana	CR 53 (1953)	145
$C_{15}H_{14}N_2$	3-Amino-2-acetylaminofluorene	2000-2300	Sol	Freq	Meakins	JCS - (1957)	993
$C_{15}H_{14}N_2O$	N-(4-Acetylamino-benzylidene-2-amino-phenol	1300-4000	S	Table	Gutmann	JACS 77 (1955)	4422
$C_{15}H_{14}N_2O_2$	Di-p-methoxyphenyl carbodiimide	-	Sol	Freq	Clougherty	JOC 22 (1957)	462
$C_{15}H_{14}N_2O_2$	1-Methyl-4-(α -carbethoxy- α -cyano-methylene)-1,4-dihydroquinoline	2000-2300	Sol	Vibrations	Meakins	JCS - (1957)	993
$C_{15}H_{14}N_2O_2$	3-Amino-4-benzyl-5-phenyl-1,2,4,4H-triazole	1600-2200	-	Band freq	Leonard	JACS 74 (1952)	2110
$C_{15}H_{14}N_4$	5-Amino-1-benzyl-4-phenyl-1,2,3-triazole	-	-	Group freq, Struct	Kaiser	JOC 18 (1953)	196
$C_{15}H_{14}N_4$		900-1310	S	Freq, Assign, I	Lieber	CJC 36 (1958)	1441

$C_{15}H_{14}N_4$	900-1310	S	Freq, Assign, I	Lieber	GJC	36 (1958)	1441
5-p-Toluidyl-4-phenyl-1,2,3-triazole							
$C_{15}H_{14}N_4O_2S$	600-4000	S	Spec	Epp	AC	29 (1957)	1283
N-(Phenyl-p-azophenyl)thiocarbamoyl-dl-glycine							
$C_{15}H_{14}N_4O_3$	700-3400	Sol	Spec	Snyder	JACS	74 (1952)	4910
Methyl N-(α -pyridyl)mesoxalamate phenylhydrazone							
$C_{15}H_{14}N_4O_4$	2-15 μ	S	Spec, Ident	Jones	AC	28 (1956)	191
Hydrocinamic aldehyde-2,4-dinitrophenylhydrazone							
$C_{15}H_{14}N_4O_4$	2-15 μ	S	Spec, Ident	Jones	AC	28 (1956)	191
p-Methylacetophenone-2,4-dinitrophenylhydrazone							
$C_{15}H_{14}N_4O_4$	-	Sol	Band freq	Ramirez	JACS	75 (1953)	6026
α -Phenylacetone-2,4-dinitrophenylhydrazone							
$C_{15}H_{14}N_4O_4$	-	Sol	Group study	Ramirez	JACS	76 (1954)	1037
α -Phenylpropionaldehyde-2,4-dinitrophenylhydrazone							
$C_{15}H_{14}N_4O_4$	-	Sol	Band freq Ident	Ramirez Witkop	JACS JACS	75 (1953) 75 (1953)	1026 1975
Propiophenone-2,4-dinitrophenylhydrazone (syn)							
$C_{15}H_{14}N_4O_4$	2-16 μ	Sol	Spec	Ramirez	JACS	76 (1954)	1037
anti-Propiophenone-2,4-dinitrophenylhydrazone							
$C_{15}H_{14}N_4O_8$	-	-	Group freq	Kwart	JACS	76 (1954)	4078
4-Keto-3,6-methylenehexahydro-endo-cis-phthalic acid-2,4-dinitrophenylhydrazone							

$C_{15}H_{14}N_4O_8$	4-Keto-3,6-methylene-hexahydro-trans-phthalic acid-2,4-dinitrophenyl-hydrazone	-	-	Group freq	Kwart	JACS 76 (1954)	4078
$C_{15}H_{14}O$	ω -Benzylacetophenone	-	S	Group freq Spec, Freq	Gronwell Adelfang	JOC 17 (1952) JACS 82 (1960)	414 4241
$C_{15}H_{14}O$	Benzyl p-tolyl ketone	2.5-12 μ	Sol	Spec	Curtin	JACS 76 (1954)	3719
$C_{15}H_{14}O$	Cyclooctatetraenyl-phenylcarbinol	-	-	Band freq	Cope	JACS 75 (1953)	3208
$C_{15}H_{14}O$	Dibenzyl ketone	3-10 μ	-	Spec	Taschek	JCP 7 (1939)	11
$C_{15}H_{14}O$	4,4'-Dimethyl-benzophenone	1600-1800	Sol	Group freq	Fuson	JACS 76 (1954)	2526
$C_{15}H_{14}O$	cis-1,3-Diphenyl-2-propen-1-ol	-	-	Group freq Band freq, I Ident	Lutz Lutz Wasserman	JACS 77 (1955) JACS 77 (1955) JACS 77 (1955)	366 1814 590
$C_{15}H_{14}O$	trans-1,3-Diphenyl-prop-2-en-1-ol	-	Sol	Band freq	Lutz	JACS 77 (1955)	1816
$C_{15}H_{14}O$	1-Hydroxy-2-methylene-1,2,3,4-tetrahydrophenanthrene	-	-	Ident, Struct	Dreiding	JACS 75 (1953)	3723
$C_{15}H_{14}O$	1-Keto-2-methyl-1,2,3,4-tetrahydrophenanthrene	-	-	Group freq	Dreiding	JACS 75 (1953)	3723
$C_{15}H_{14}O$	2-Methoxystilbene	5-15 μ	S	Spec, Band freq	Thompson	JCS - (1950)	214
$C_{15}H_{14}O$	p-Methylbenzyl phenyl	2.5-12 μ	Sol	Spec	Curtin	JACS 76 (1954)	3719

				Band freq	Djerassi	JACS	
$C_{15}H_{14}O$	3-Methyl-4-keto-1,2,3,4-tetrahydrophenanthrene	-	-	-	Lutz	JACS	76 (1954) 1741
$C_{15}H_{14}O$	ois-2-Phenylcinnamyl alcohol	-	-	Group freq, Struct	Lutz	JACS	77 (1955) 366
$C_{15}H_{14}O_2$	Benzoin methyl ether	-	-	Group freq	Dauben	JACS	74 (1952) 2082
$C_{15}H_{14}O_2$	trans-1,3-Diphenyl-2,3-epoxy-1-propanol	-	-	Ident	Wasserman	JACS	77 (1955) 590
$C_{15}H_{14}O_2$	1,2-Diphenyl-1-methoxyethylene oxide	-	-	Group freq, Struct	Stevens	JACS	75 (1955) 3977
$C_{15}H_{14}O_2$	11- α -Furyl-2,4,6,8,10-undecapentaenal	1400-2000	Sol, S	Spec	Blout	JACS	70 (1948) 194
$C_{15}H_{14}O_2$	3-Hydroxy-4-propionyl-biphenyl	800-2900	Sol	Spec, Freq	Lacey	JCS	- (1960) 3153
$C_{15}H_{14}O_2$	Methyl diphenylacetate	-	-	Reference	Bonner	JACS	76 (1954) 6350
$C_{15}H_{14}O_2S$	Benzylthio o-methoxybenzoate	2.5-16 μ	Sol	Struct, Freq	Nyquist	SA	15 (1959) 514
$C_{15}H_{14}O_2S$	9-(9-Methylfluorenyl)methyl sulfone	1100-1400	Sol	Spec, Freq	Bavin	SA	16 (1960) 1312
$C_{15}H_{14}O_3$	2,2'-Dimethoxybenzophenone	-	-	Ident	Morton	JACS	76 (1954) 2973
$C_{15}H_{14}O_3$	4,4'-Dimethoxybenzophenone	1600-1800 1700	Sol	Group freq	Fuson	JACS	76 (1954) 2526
$C_{15}H_{14}O_3$	Di-m-tolyl carbonate	1000-1700	Sol	Freq, I, Substitution Band freq, Ident	Thompson Buckles	SA JACS	9 (1957) 208 82 (1960) 2444
$C_{15}H_{14}O_3$	Di-m-tolyl carbonate	-	Sol	Freq, I, Group study	Thompson	SA	13 (1958) 236

$C_{15}H_{14}O_3$	Di-p-tolyl carbonate	-	Sol	Freq, I, Group study	Thompson	SA	13 (1958)	236
$C_{15}H_{14}O_3$	Lapachol	2-12 μ	Sol	Spec	Ettlinger	JACS	72 (1950)	3666
$C_{15}H_{14}O_3$	β -Lapachone	-	-	Freq Group freq	Ettlinger Josien	JACS JCP	72 (1950) 21 (1953)	3666 331
$C_{15}H_{14}O_3$	3-Nor-2-diacetylidene- methylbenzuber- enol-1	3-14 μ	S	Spec, Struct	Ott	JACS	74 (1952)	6266
$C_{15}H_{14}O_3$	3-Nor-2-diacetylidene- methylbenzuber- enol-1-hemiacetal cyclized	3-14 μ	S	Spec, Struct	Ott	JACS	74 (1952)	6266
$C_{15}H_{14}O_4$	3-Hydroxy-5,7- dimethoxy-1-methyl- dibenzofuran	-	-	Ident	MacMillan	JCS	- (1954)	429
$C_{15}H_{14}O_4$	Hydroxyisolapachol	2-12 μ	Sol	Spec	Ettlinger	JACS	72 (1950)	3666
$C_{15}H_{14}O_4$	Yangonine	2-12 μ	S, Sol	Struct	Chmielewska	TE	4 (1958)	36
$C_{15}H_{14}O_4$	Pseudoyangonine	2-12 μ	Sol	Struct	Chmielewska	TE	4 (1958)	36
$C_{15}H_{14}O_4S$	o-Acetylphenyl toluene- p-sulfonate	-	S	Group freq	Plant	JCS	- (1955)	1278
$C_{15}H_{14}O_4S$	p-Tolylsulfonyl- carbonyl benzoate	5-14 μ	S	Band freq, I	Field	JACS	73 (1951)	5870
$C_{15}H_{14}O_6$	1-Epicatechol	700-4000	S	Spec, Group assign	Hergert	JOC	18 (1953)	521
$C_{15}H_{14}O_6$	6,3,3',4',5,7-trans- Pentahydroxy-	700-4000	S	Spec, Assign, Struct	Hergert	JOC	18 (1953)	521

$C_{15}H_{15}BrO_3S$	7-15 μ	Spec, Freq	Winstein	JACS 74 (1952) 2171
Benzylmethylcarbinyl p-bromobenzenesulfonate	-	-	Winstein	JACS 74 (1952) 2171
$C_{15}H_{15}BrO_3S$	7-15 μ	Spec, Freq	Winstein	JACS 74 (1952) 2171
2-Phenyl-1-propyl-p-bromobenzene sulfonate	-	-	Conroy	JACS 74 (1952) 491
$C_{15}H_{15}BrO_6$	2-16 μ	Spec	Grove	JCS - (1952) 3967
α, β -Bromopicrotoxinin	-	Ident	MacMillan	JCS - (1954) 429
Benzyl 2-chloro-3,5-dimethoxyphenyl ether	-	Ident	Grove	JCS - (1952) 3949
$C_{15}H_{15}ClO_4$	700-1900	Spec, Group study	Hutchings	JACS 74 (1952) 3710
1-8-Chloro-1,2,3,4-tetrahydro-5,7-dimethoxy-1-methyl-3-oxodibenzofuran	-	Ident	Hidalgo	ARS 53B (1957) 491
Decarboxygriseofulvic acid	600-4000	Spec, Assign	Robinson	JCS - (1953) 2596
$C_{15}H_{15}ClO_7$	4-14 μ	Ident	Richards	JCS - (1947) 1248
β -(4-Chloro-7-methoxy-3-methylphthalid-3) glutaric acid	1500-1750	Spec, Assign	Bergmann	JACS 75 (1953) 68
$C_{15}H_{15}N$	-	-		
N- α -Phenylethylidenebenzylamine	-	-		
$C_{15}H_{15}N$	4-14 μ	Ident		
1,4,9-Trimethylcarbazole	-	-		
$C_{15}H_{15}NO$	1500-1750	Spec, Assign		
N-(Benzyl)phenylacetamide	-	-		
$C_{15}H_{15}NO$	-	-		
N-(Diethylmethylene)-2-aminoethanol-1	-	-		

$C_{15}H_{15}NO$	9-Ethyl-5,6,7,8-tetrahydro-8-oxo-phenanthridine	-	L,S	Band freq	Rogers	JCS - (1955)	341
$C_{15}H_{15}NO$	2- β -Hydroxyethyl-aminofluorene	-	-	Group freq	Sawicki	JACS 75 (1953)	4596
$C_{15}H_{15}NO$	α -Phenylaceto-p-toluidide	-	Sol	Band freq, Ext coefficient	Russell	JCS - (1955)	483
$C_{15}H_{15}NO$	N-o-Tolylphenyl-acetamide	1500-3600 3 μ	S,Sol Sol	Assign, Spec Band freq	Richards Russell	JCS - (1947) SA 8 (1956)	1248 138
$C_{15}H_{15}NO$	N-p-Tolylphenyl-acetamide	1500-3600 3 μ	S,Sol Sol	Spec, Assign Band freq	Richards Russell	JCS - (1947) SA 8 (1956)	1248 138
$C_{15}H_{15}NO_2$	1-Benzyl-4,5,6,7-tetrahydroisatin	900-4000	S	Struct	O'Sullivan	JCS - (1959)	876
$C_{15}H_{15}NO_2$	Des-methoxy- β -erythroidine	2.5-15 μ	S	Spec, Struct	Boekelheide	JACS 75 (1953)	2550
$C_{15}H_{15}NO_2$	N,3-Dimethyl-2-benzamidophenol	-	S	Band freq, Assign, I	Edward	JACS - (1954)	1464
$C_{15}H_{15}NO_2$	N,4-Dimethyl-2-benzamidophenol	670-1300	S	Band freq, Assign, I	Edward	JCS - (1954)	1464
$C_{15}H_{15}NO_2$	N,5-Dimethyl-2-benzamidophenol	-	S	Band freq, Assign	Edward	JCS - (1954)	1464
$C_{15}H_{15}NO_2$	Diphenylurethan	2-15 μ	Sol	Spec, Group freq	Pristera	AC 25 (1953)	844
$C_{15}H_{15}NO_2$	apo- β -Erythroidine	2-15 μ	Sol S	Spec, Struct Group freq, Struct	Grundon Grundon	JACS 74 (1952) JACS 75 (1953)	2637 2537
$C_{15}H_{15}NO_2$	Isopo- β -erythro- idine	2-15 μ	S -	Spec, Struct Group freq, Struct	Grundon Boekelheide	JACS 74 (1952) JACS 75 (1953)	2637 2550

$C_{15}H_{15}NO_2$	$C_{15}H_{15}NO_2$	$C_{15}H_{15}NO_3$	$C_{15}H_{15}NO_3$	$C_{15}H_{15}NO_3S$	$C_{15}H_{15}NO_4$	$C_{15}H_{15}NO_4$	$C_{15}H_{15}NO_5$	$C_{15}H_{15}NO_6$	$C_{15}H_{15}NO_6$	$C_{15}H_{15}NS$
N-(4-Methoxy)benzylidene-4-anisidine	4,5,6,7-Tetrahydro-1-(p-methyl)phenylisatin	4,5,6,7-Tetrahydro-1-(m-methoxy)phenylisatin	4,5,6,7-Tetrahydro-1-(p-methoxy)phenylisatin	1- α -Naphthylmercapturic acid	1-N-Acetyl-2-methylcarboxy- β -methoxy-5-phenylpyrrole	Bicyclo[2.2.2]-5-octen-2-ol p-nitrobenzoate	Isoacronyridine	5-Methyl-2-cyclohexenyl- β -nitro acid phthalate	3,5,6-Triacetoxy-N-methylindole	10-Isopropylpheno thiazine
	900-4000	900-4000	900-4000	2-15 μ	-	-	1450-4000	-	1500-3500	-
	S	S	S	S,Sol	Sol	-	S	-	S	-
	Substitution effect	Substitution effect	Substitution effect	Spec, Struct	Freq	Ident	Spec, Freq	Freq	Struct	Ident
	JCS	JCS	JCS	JACS	SA	JOC	AJC	JACS	CJC	JOC
	- (1959)	- (1959)	- (1959)	74 (1952)	9 (1957)	19 (1954)	12 (1959)	76 (1954)	36 (1958)	19 (1954)
	Cloughertt	O'Sullivan	O'Sullivan	O'Sullivan	Fuson	Tanner	Price	Goering	Heacock	Gilman
	462	876	876	876	1	282	589	5409	1550	560

$C_{15}H_{15}N_2O_2S$	10-Ethylphenothiazine-4-carboxylic acid hydrazide-5-oxide	-	-	Ident	Gilman	JOC	19 (1954)	560
$C_{15}H_{15}N_3O_6$	Triethyl 1,2,3-tricyanocyclopropane-1,2,3-tricarboxylate	4.5-6 μ	Sol	Struct	Felton	JCS	- (1955)	2170
$C_{15}H_{15}N_4O_4$	p-Dimethylamino-benzaldehyde-2,4-dinitrophenyl-hydrazone	2-15 μ	S	Spec, Ident	Jones	AC	28 (1956)	191
$C_{15}H_{15}O_3S \cdot HCl$	p-Aminomethylphenyl benzoylmethyl sulfone hydrochloride	-	S	Substitution effect	Momase	CPBT	6 (1958)	412
$C_{15}H_{16}$	1,1-Diphenylpropane	8000-9000	Sol	Group study	Hibbard	AC	21 (1949)	486
$C_{15}H_{16}$	2-Ethylidiphenylmethane	15-35 μ	S	Spec, Struct	Bentley	SA	15 (1959)	165
$C_{15}H_{16}$	3-Ethylidiphenylmethane	15-35 μ	S	Spec, Struct	Bentley	SA	15 (1959)	165
$C_{15}H_{16}$	4-Ethylidiphenylmethane	15-35 μ	S	Spec, Struct	Bentley	SA	15 (1959)	165
$C_{15}H_{16}$	2-Isopropylbiphenyl	-	-	Freq	Rondestvedt	JACS	77 (1955)	1769
$C_{15}H_{16}$	3-Isopropylbiphenyl	-	-	Freq	Rondestvedt	JACS	77 (1955)	1769
$C_{15}H_{16}$	4-Isopropylbiphenyl	-	-	Freq	Rondestvedt	JACS	77 (1955)	1769
$C_{15}H_{16}$	9-Methyl-1,2,3,4-tetrahydrophenanthrene	2-15 μ	-	Struct, Ident	Cagniant	BSCF	- (1957)	1403

$C_{15}H_{16}$	2-n-Propylbiphenyl	8000-9000	Sol	Group study	Hibbard	AC	21 (1949)	486
$C_{15}H_{16}$	3,5,4'-Trimethylbiphenyl	660-2000	Sol	Spec	Cannon	SA	4 (1951)	373
$C_{15}H_{16}F_3NO_2$	N-Benzoyl-N-trifluoroacetylcyclohexylamine	-	Sol	Group freq	Bourne	JCS	- (1952)	4014
$C_{15}H_{16}NS$	N- α -Methylthio-benzylideneaniline methiodide	-	Sol	Group freq	Goulden	JCS	- (1953)	997
$C_{15}H_{16}N_2$	N-Benzylidene-N'-dimethyl-4-phenylenediamine	-	Sol	Freq	Clougherty	JOC	22 (1957)	462
$C_{15}H_{16}N_2$	4-(p-Dimethylamino-styryl)pyridine	-	-	Freq, Struct, Assign	Katritzky	JCS	- (1959)	3674
$C_{15}H_{16}N_2O$	N-Benzoyl-N,N'-dimethyl-o-phenylenediamine	2-15 μ	Sol	Freq, Struct	Smith	JACS	71 (1949)	1082
$C_{15}H_{16}N_2O$	N-(4-Dimethylamino)benzylidene-2-aminophenol	- 3300-3400	Sol Sol	Freq Freq, I, H bond	Clougherty Badger	JOC JCS	22 (1957) - (1958)	462 3437
$C_{15}H_{16}N_2O$	4-(p-Dimethylamino-styryl)pyridine-N-oxide	700-1700	Sol	Freq, Assign, Struct Freq, Assign, I	Katritzky Katritzky	JCS JCS	- (1959) - (1959)	2051 3674
$C_{15}H_{16}N_2O$	S-Dimethyldiphenylurea	2-15 μ	Sol	Spec, Group freq	Priestera	AC	25 (1953)	844
$C_{15}H_{16}N_2O$	4-Methoxyazotoluene	600-1700	S	Spec, Freq	Le Fevre	AJC	10 (1957)	26
$C_{15}H_{16}N_2O$	4- β -Phenylacetamidoeethylpyridine	600-4000	Sol	Group freq	Katritzky	JCS	- (1958)	4155

$C_{15}H_{16}N_2O_2$	N-Acetylpharmaline	-	Sol	Group freq	Marion	JACS 73 (1951)	305
$C_{15}H_{16}N_2O_2$	1-Benzyl-4,5,6,7-tetrahydroisatin-3-oxime	900-4000	S	Struct	O'Sullivan	JCS - (1959)	876
$C_{15}H_{16}N_2O_2$	Pyridoxylidene-benzylemine	-	Sol	Freq	Witkop	JACS 76 (1954)	5589
$C_{15}H_{16}N_2O_3$	2-Acetyl-1,2,3,4-tetrahydro-7-methoxy-9-methyl-1-oxo- β -carboline	6 μ	S	Group freq	Abramovitch	JCS - (1957)	1413
$C_{15}H_{16}N_2O_3$	Pyridoxylidene-o-hydroxybenzylamine	-	S	Group freq	Witkop	JACS 76 (1954)	5589
$C_{15}H_{16}N_2O_3$	Pyridoxylidene-p-hydroxybenzylamine	-	S	Group freq, I, Iso	Witkop	JACS 76 (1954)	5589
$C_{15}H_{16}N_2O_3$	Salicylidenepyridoxamine	-	S	Group freq	Witkop	JACS 76 (1954)	5589
$C_{15}H_{16}N_2O_3$	N-Methyl-p-acetamidobenzenesulfonanilide	-	S,Sol	Group freq	Baxter	JCS - (1956)	669
$C_{15}H_{16}N_2O_4$	4,6-Dihydroxy-2-phenyl-5-(2'-tetrahydropyranoxy)pyrimidine	650-3600	S	Group study	Tanner	SA 8 (1956)	9
$C_{15}H_{16}N_2O_8$	2-Hydroxycyclohexane-1-spiro-2',1',3'-dioxolan 3,5-dinitro-	-	S	Ident	Jaeger	JCS - (1955)	160

$C_{15}H_{16}N_2S$	600-4000	Sol	Group freq	Katritzky	JCS - (1958)	4155
4-Pyridyl-n- β -phenyl-ethylthioacetamide						
$C_{15}H_{16}O$	2-16 μ	Sol	Spec, Ident	Curtin	JACS 74 (1952)	5381
1-p-Anisyl-1-phenyl-ethane						
$C_{15}H_{16}O$	2-16 μ	Sol	Spec, Ident	Curtin	JACS 74 (1952)	5381
1-p-Anisyl-2-phenyl-ethane						
$C_{15}H_{16}O$	1600-1800	Sol	Group freq	Fuson	JACS 76 (1954)	2526
6-Benzylidene-3,5-dimethyl- Δ^2 -cyclohexenone						
$C_{15}H_{16}O$	-	-	Ident	Kaufmann	JACS 76 (1954)	5794
Diphenylethyl-carbinol						
$C_{15}H_{16}O$	2.5-13 μ	L	Spec, Ext coefficient Freq	Abd Elhafez Cram	JACS 75 (1953)	339
1,1-Diphenyl-2-propanol	-	L			JACS 76 (1954)	28
$C_{15}H_{16}O$	2.5-13 μ	L	Spec, Ext coefficient	Abd Elhafez	JACS 75 (1953)	339
1,2-Diphenyl-2-propanol						
$C_{15}H_{16}O$	-	-	Group freq	Dreiding	JACS 75 (1953)	3723
1,3-Diphenylpropane-1-ol						
$C_{15}H_{16}O$	2.5-13 μ	L	Spec, Ext coefficient Freq	Abd Elhafez Cram	JACS 75 (1953)	339
L-erythro-1,2-Diphenyl-1-propanol	-	L			JACS 76 (1954)	28
$C_{15}H_{16}O$	2.5-13 μ	L	Spec, Ext coefficient Freq	Abd Elhafez Cram	JACS 75 (1953)	339
L-threo-1,2-Diphenyl-1-propanol	-	L			JACS 76 (1954)	28
$C_{15}H_{16}O$	-	-	Ident	Hart	JACS 76 (1954)	4547
o- α -Phenethyl-p-cresol						
$C_{15}H_{16}OS_1$	-	Sol	Freq	Brook	JACS 82 (1960)	5102
Benzoyldimethyl-phenylsilane						
$C_{15}H_{16}O_2$	1200-1800	Sol	Spec, Freq	Lacey	JCS - (1960)	3153
3-Acetyl-6-phenyl-hepta-3,5-dien-2-one						

$C_{15}H_{16}O_2$	Bisphenol A	3100-3700 650-1300 2-15.3 μ	S, Sol - S	Assign, Spec Spec Spec	Richards Thompson Hacskeylo	JCS - JCS - AC 26	(1947) 1260 (1947) 289 (1954) 1410
$C_{15}H_{16}O_2$	Dianisylmethane	1000-1700	Sol	Ident, Band freq	Buckles	JACS 82	(1960) 2444
$C_{15}H_{16}O_2$	2,2'-Dihydroxy-5,5'- dimethyldiphenyl- methane	3100-3700	Sol, S	Assign, Spec	Richards	JCS -	(1947) 1260
$C_{15}H_{16}O_2$	9,10-Diketo-12- methyl-1,2,3,4,9, 10,11,12-octahydro- phenanthrenenol	-	-	Group freq	Parham	JACS 77	(1955) 1166
$C_{15}H_{16}O_2$	4,8-Dimethyl-6- carbethoxyazulene	-	-	Review	Gordon	CR 50	(1952) 127
$C_{15}H_{16}O_3$	1-Acetyl-1-carbethoxy- 4-phenyl-1,3- butadiene	1200-1800	Sol	Spec, Freq	Lacey	JCS -	(1960) 3153
$C_{15}H_{16}O_3$	4-Carbethoxy-3- phenylcyclohex- 2-en-1-one	-	Sol	Group freq	Walker	JACS 77	(1955) 3664
$C_{15}H_{16}O_3$	4-Carbomethoxy-5- benzoylcyclohexene	-	Sol	Freq	Marvel	JOC 20	(1955) 587
$C_{15}H_{16}O_3$	Methyl 7-p-methoxy- phenyl-all-trans- 2,4,6-heptatrien- oate	-	S	Group freq, I	Allan	JCS -	(1955) 1876
$C_{15}H_{16}O_3$	Santonene	2-15 μ	S, Sol	Struct	Kanzawa	JACS 80	(1958) 3705
$C_{15}H_{16}O_4$	Cinnamoylitaconic acid ethyl ester	-	Sol	Freq	Walker	JACS 76	(1954) 6205

$C_{15}H_{16}O_4$		S	Group freq, Struct	Leomenthal	JCS	(Year)
Cyclohexane-spiro-3-(3,4-dihydroisocoumarin-4-carboxylic acid)	-	S	Group freq, Struct	Leomenthal	JCS	(1952) 4799
$C_{15}H_{16}O_4$	2-12 μ	Sol	Struct	Chmielewska	TE	4 (1958) 36
Dihydrodropseudo-yangonine						
$C_{15}H_{16}O_4$	2-12 μ	Sol	Struct	Chmielewska	TE	4 (1958) 36
Dihydroyangonine						
$C_{15}H_{16}O_4$	-	-	Freq	Goering	JACS	76 (1954) 5409
cis-5-Methyl-2-cyclohexenyl acid phthalate	-	-	Ident	Goering	JACS	77 (1955) 1129
$C_{15}H_{16}O_4$	-	Sol	Ident	Goering	JACS	76 (1954) 5405
1-trans-5-Methyl-2-cyclohexenyl acid phthalate	-	-	Freq	Goering	JACS	76 (1954) 5409
$C_{15}H_{16}O_4$	-	-	Ident	Mac Millan	JCS	(1954) 429
dl- α -1,2,3,4-Tetrahydro-5,7-dimethoxy-1-methyl-3-oxodibenzofuran						
$C_{15}H_{16}O_4$	-	Sol	Ident	Mac Millan	JCS	(1954) 429
dl- β -1,2,3,4-Tetrahydro-5,7-dimethoxy-1-methyl-3-oxodibenzofuran						
$C_{15}H_{16}O_4$	800-1620	S	Band freq	Tipson	JACS	74 (1952) 1354
β -Phenoxyethyl p-toluenesulfonate						
$C_{15}H_{16}O_6$	-	-	Band freq, Struct	Conroy	JACS	73 (1951) 1889
Picrotoxinin	-	S,Sol	Band freq, Struct	Benstead	JCS	(1952) 1042
	2-16 μ	H	Spec, Struct, Freq	Conroy	JACS	74 (1952) 491
$C_{15}H_{16}O_7$	-	S,Sol	Group freq, Struct	Duncanson	JCS	(1953) 3637
Dihydrogladiolide diacetate						

				Ident	Nes	
$C_{15}H_{16}O_8$	1-Methyl-2,3,5,6-tetracarbomethoxybenzene	-	-		JACS	76 (1954) 3182
$C_{15}H_{16}Si$	Diphenylallylsilane	2-16 μ	Sol	Group freq	Kniseley	SA 15 (1959) 651
$C_{15}H_{17}BrO_4$	1-Hydroxy-1-[(hydroxy-methoxy-p-bromophenyl)methyl]-cyclohexane-2-carboxylic acid- γ -lactone	2-16 μ	Sol	Speco, Struct	Bartlett	JACS 73 (1951) 4275
$C_{15}H_{17}BrO_5$	5-Bromo-7,8-dimethoxy-2-tetralone-1-acetic acid methyl ester	-	-	Band freq	Stork	JACS 73 (1951) 4743
$C_{15}H_{17}BrO_5$	3-Carbethoxy-5-bromo-7,8-dimethoxy-1-tetralone	-	Sol	Band freq	Walker	JACS 75 (1953) 4108
$C_{15}H_{17}BrO_6$	α -Bromotutin	-	S	Group freq	Fletcher	JCS - (1954) 1953
$C_{15}H_{17}BrO_6$	β -Bromotutin	-	S	Group freq	Fletcher	JCS - (1954) 1953
$C_{15}H_{17}BrO_6$	Bromoiso-tutin	-	S	Group freq	Fletcher	JCS - (1954) 1953
$C_{15}H_{17}BrO_6$	Bromo-neo-tutin	-	S	Group freq	Fletcher	JCS - (1954) 1953
$C_{15}H_{17}ClN_2O \cdot 2HCl$	5-Chloro-7-(1'-piperidylmethyl)-8-quinolinol dihydrochloride	-	-	Struct	Edgerton	JACS 74 (1952) 5209
$C_{15}H_{17}ClO_5$	dl-d-7-Chloro-4,6-dimethoxy-2-(1-methyl-3-oxobutyl)coumaranone	-	-	Group freq, Spec	Mao Millan	JCS - (1954) 429

C ₁₅ H ₁₇ ClO ₅	dl-β-7-Chloro-4,6-dimethoxy-2-(1-methyl-3-oxobutyl)coumaranone	-	-	Group freq, Spec	Mac Millan	JCS -	(1954)	429
C ₁₅ H ₁₇ ClO ₆	Δ-(7-Chloro-6-hydroxy-4-methoxy-3-oxocoumaran-2-yl)hexanoic acid	-	Sol	Spec	Duncanson	JCS -	(1957)	3555
C ₁₅ H ₁₇ ClO ₆	7-Chloro-4-(or 6)-hydroxy-6-(or 4)-methoxycoumaran-3-one-2-(5'-hexanoic acid)	-	S	Group freq	Mulholland	JCS -	(1952)	3994
C ₁₅ H ₁₇ ClO ₇	Methyl 7-chloro-2-hydroxy-4,6-dimethoxycoumaran-3-one-2-β-butyrate	700-1900	-	Group freq, Spec	Grove	JCS -	(1952)	3967
C ₁₅ H ₁₇ N	N-Benzyl-N-ethyl-aniline	2900-3100	Sol	Freq	Hill	JCS -	(1958)	760
C ₁₅ H ₁₇ N	Benzylphenethyl-amine	3.38-3.60 μ S	S	Freq	Wright	JOC 24	(1959)	1362
C ₁₅ H ₁₇ NO	dl-erythro-1,2-Diphenyl-2-methyl-aminoethanol	600-3600	S,Sol	Spec	Kanzawa	BCSJ 29	(1956)	398
C ₁₅ H ₁₇ NO.HCl	dl-erythro-1,2-Diphenyl-2-methyl-aminoethanol hydrochloride	600-3600	S	Spec	Kanzawa	BCSJ 29	(1956)	398
C ₁₅ H ₁₇ NO	dl-threo-1,2-Diphenyl-2-methylaminoethanol	600-3600	S,Sol	Spec	Kanzawa	BCSJ 29	(1956)	398

$C_{15}H_{17}NO$	N-p-Diphenyl-2-methoxyethylamine	-	S, Sol	Group freq	Baxter	JCS - (1955)	669
$C_{15}H_{17}NO$	9-Ethyl-5,6,7,8-tetrahydro-8-hydroxyphenanthridine	-	S, L	Band freq	Rogers	JCS - (1955)	341
$C_{15}H_{17}NO$	1-Phenyl-2-methylamino-2-phenylethanol	2.5-4 μ	Sol	Spec	Kanzawa	BCSJ 29 (1956)	398
$C_{15}H_{17}NO_2$	Dihydro- α - β -erythroidine	2-15 μ	Sol	Spec, Struct	Grundon	JACS 74 (1952)	2637
$C_{15}H_{17}NO_2$	allo-Dihydrodesmethoxy- β -erythroidine	-	-	Group freq, Ident	Boekeheide	JACS 75 (1953)	2558
$C_{15}H_{17}NO_2$	1,2-Dihydro-2-(p-methoxyphenyl)-3,1,4a-benzoxazine	-	Sol	Group freq	Witkop	JACS 76 (1954)	5589
$C_{15}H_{17}NO_2 \cdot HCl$	1,2-Dihydro-2-(p-methoxyphenyl)-3,1,4a-benzoxazine hydrochloride	-	S	Group freq	Witkop	JACS 76 (1954)	5589
$C_{15}H_{17}NO_2$	1-(2,6-Dioxocyclohexyl)-3-anilino-propylidene	-	S, L	Band freq	Rogers	JCS - (1955)	341
$C_{15}H_{17}NO_2$	N-(p-Methoxybenzyl)-p-anisidine	-	-	Group study, Electronic effects	Oki	BCSJ 32 (1959)	955
$C_{15}H_{17}NO_2$	1-Phenyl-4,5,6,7-tetrahydroisatin-3-methyl ether	900-4000	S	Struct	O'Sullivan	JCS - (1959)	876

$C_{15}H_{17}NO_2S$	650-4000	Spec	Chatten	AC	31 (1959)	1581
Penzenesulphonyl-amphetamine	-	-				
$C_{15}H_{17}NO_3$ 1-Benzyl-4,4-diethyl-2,3,5-pyrrolidinetrione	-	Spec	Skinner	JACS	72 (1950)	5569
$C_{15}H_{17}NO_3$ t-Butyl-N-1-naphthyl percarbamate	5-15 μ	Ident Spec, Band freq	Davies Minkoff	JCS PRS	- (1953) 224 (1954)	1808 176
$C_{15}H_{17}NO_4$ N-Benzoylnoregonine	2-15 μ	Group freq Spec, Group freq	Findlay Findlay	JACS JACS	75 (1953) 76 (1954)	4624 2855
$C_{15}H_{17}NO_4$ O-Benzoylnoregonine	2-15 μ	Group freq Spec, Group freq	Findlay Findlay	JACS JACS	75 (1953) 76 (1954)	4624 2855
$C_{15}H_{17}NO_5$ 1-Acetyl-3-ethoxy-methylene-5,6-dimethoxyindole	-	Freq	Walker	JACS	77 (1955)	3844
$C_{15}H_{17}NO_5$ Dihydroacronycidine (IX)	1450-4000	Spec, Freq	Price	AJC	12 (1959)	589
$C_{15}H_{17}NO_5$ Dihydroisoacronycidine (VII)	1450-4000	Spec, Freq	Price	AJC	12 (1959)	589
$C_{15}H_{17}NO_5$ 1-Phenyl-4,4-dicarboethoxy-2-azetidione	2-10 μ	Spec	Sheehan	JACS	72 (1950)	5158
$C_{15}H_{17}NS$ 3-Diphenylamino-propanethiol	-	Band freq	Plant	JACS	77 (1954)	1572
$C_{15}H_{17}N_3$ 4-Ethylmethylaminoazobenzene	600-1700	Spec, Freq	Le Fevre	AJC	10 (1957)	26
$C_{15}H_{17}N_3O$ 4-(N-Methyl-N- β -hydroxyethylamino)azobenzene	600-1700	Spec, Freq	Le Fevre	AJC	10 (1957)	26

		940	Sol	Band freq	Whiffen	TFS	41 (1945)	200
$C_{15}H_{17}O_3P$	Di-p-tolyl methane-phosphonate							
$C_{15}H_{18}$	1-n-Amylnaphthalene	15-35 μ	S	Spec, Struct	Bentley	SA	15 (1959)	165
$C_{15}H_{18}$	Chamazulene	-	-	Review Freq	Gordon Mangoni	CR GCI	50 (1952) 90 (1960)	127 947
$C_{15}H_{18}$	1,4-Dimethyl-6-isopropylazulene	-	-	Review	Gordon	CR	50 (1952)	127
$C_{15}H_{18}$	4,8-Dimethyl-6-isopropylazulene	-	-	Review	Gordon	CR	50 (1952)	127
$C_{15}H_{18}$	Guaiazulene	-	-	Freq	Mangoni	GCI	90 (1960)	947
$C_{15}H_{18}$	Guaiazulene (reduced by S)	-	-	Review	Gordon	CR	50 (1952)	127
$C_{15}H_{18}$	Guaiazulene (reduced by Se)	-	-	Review	Gordon	CR	50 (1952)	127
$C_{15}H_{18}$	1,2,3,4,5-Pentamethylnaphthalene	2-16 μ	S, Sol	Spec	Mosby	JACS	74 (1952)	2564
$C_{15}H_{18}Br_2O_4$	Dibromodihydrohelenalin	-	-	Struct	Adams	JACS	71 (1949)	2554
$C_{15}H_{18}ClN.HCl$	N-Ethyl-N-(β -chloroethyl)- β -naphthylmethanamine hydrochloride	2-8 μ	S	Spec	Nakanishi	BCSJ	30 (1957)	403
$C_{15}H_{18}ClNO_5$	Diethyl chloroacetanilidomalonate	2-10 μ	Sol	Spec	Sheehan	JACS	72 (1950)	5158
$C_{15}H_{18}N_2$	N-(m-Dimethylamino-benzyl)aniline	3370-3470	Sol	Group study	OkI	BCSJ	33 (1960)	784

$C_{15}H_{18}N_2$	3370-3470	Sol	Group study	Okai	BCSJ 33 (1960)	784
N-(p-Dimethylamino-benzyl)aniline						
$C_{15}H_{18}N_2O_2$	6.37 μ	Sol	Substitution effect	Meyers	JOC 24 (1959)	1233
5,5-Dimethyl-3-isopropylidene-2-p-nitrophenyl-pyrroline						
$C_{15}H_{18}N_2O_2$	-	-	Struct	Edgerton	JACS 74 (1952)	5209
5-Methyl-7-(4-morpholinylmethyl)-8-quinolinol						
$C_{15}H_{18}N_2O_2$	-	-	Group freq, Struct	Aparicio	JCS - (1952)	4666
2-Methylquinol di(-2'-cyano-2'-propyl) ether						
$C_{15}H_{18}N_2O_6$	877-1767	S	Band freq	Ames	JCS - (1953)	3008
2,6-Diacetoxy-5-diacetylamino-3,4-dimethylpyridine						
$C_{15}H_{18}N_4O_8$	650-3800	S	Spec	Leonard	JACS 72 (1950)	4931
3-Ketquinolizidine picrate						
$C_{15}H_{18}O$	-	-	Group freq	Ginsburg	JCS - (1954)	2361
2,3,12,13,14,15-Hexahydrodibenzosuber-5-one						
$C_{15}H_{18}O$	660-4000	Sol	Spec	Wood	AC 30 (1958)	1339
3-(2'-Hydroxyisopropyl-8,8-dimethylbenzo-fulvene						
$C_{15}H_{18}O$	-	-	Band freq	Stork	JACS 73 (1951)	3544
1-Keto-12-methyl-1,2,3,4,9,10,11,12-octahydrophenanthrene						
$C_{15}H_{18}O$	-	-	Group freq	Parham	JACS 77 (1955)	1166
2-Methyl-1-phenylacetylcyclohexane						

$C_{15}H_{18}O$	cis-6,6a,7,8,9,10,11, 11a-Octahydro-5- keto-5H-cyclohepta[a] naphthalene	2-12 μ -	Spec	Gutsche	JACS 73 (1951)	786
$C_{15}H_{18}O$	trans-6,6a,7,8,9,10,11, 11a-Octahydro-5- keto-5H-cyclohepta[a] naphthalene	2-12 μ -	Spec	Gutsche	JACS 73 (1951)	786
$C_{15}H_{18}O$	cis-6,7,7a,8,9,10,11, 11a-Octahydro-5- keto-5H-dibenzo[a,c] cycloheptatriene	2-12 μ -	Spec	Gutsche	JACS 73 (1951)	786
$C_{15}H_{18}O$	trans-6,7,7a,8,9,10,11, 11a-Octahydro-5-keto- 5H-dibenzo [a,c]cyclo- heptatriene	2-12 μ -	Spec	Gutsche	JACS 73 (1951)	786
$C_{15}H_{18}O$	2- β -Phenethyl -3- methyl- Δ^2 -cyclo- hexenone	- - -	Freq	Stork	JACS 73 (1951)	3544
$C_{15}H_{18}O$	Styryl cyclohexyl ketone	1600-1800	Sol	Fuson	JACS 76 (1954)	2526
$C_{15}H_{18}O_2$	α -(1,4-Dimethyl-7- hydroxy-5,6,7,8- tetrahydro-6-naphthyl) propionic acid lactone	- - -	Group freq	Daubin	JACS 77 (1955)	4609
$C_{15}H_{18}O_2$	dl-Pentadeca-trans- 8,10,12-triene-4,6- diyne-1,4-diol	- - -	S	Hill	JCS - (1955)	1770
$C_{15}H_{18}O_2$	2-Phenylcyclohept-2-	- - -	Ident	Ginsburg	JACS 76 (1954)	3628

Formula	Compound Name	Wavenumber	State	Group / Band	Author	Year
C ₁₅ H ₁₈ O ₃	2-Benzoylcyclohexylacetic acid	-	-	Group freq	Ginsburg	(1954) 2361
C ₁₅ H ₁₈ O ₃	d-β-Desmotropo-ψ-santonin	-	-	Group freq, Struct	Daubin	(1955) 4609
C ₁₅ H ₁₈ O ₃	1-Keto-Δ ² ,4(10)santadien-12,7-olide	-	-	Group freq, Struct	Daubin	(1955) 4609
C ₁₅ H ₁₈ O ₃	Methyl α-(2-hydroxy-1,2,3,4-tetrahydro-2-naphthyl)vinyl acetate	-	S	Band freq	Dreiding	(1953) 3717
C ₁₅ H ₁₈ O ₃	Parasantoxide	2-12 μ	Sol	Struct	Woodward	(1950) 1009
C ₁₅ H ₁₈ O ₃	Santonin	835-3020 2-15 μ	L S,Sol	Group freq, I Struct	Gunstone Kanzawa	(1955) 1130 (1958) 3705
C ₁₅ H ₁₈ O ₄	3-Carbomethoxy-4-methyl-ar-2-tetralol acetate	3.29-11.70 μ	μSol	Freq, I	Dreiding	(1954) 241
C ₁₅ H ₁₈ O ₄	Helenalin	700-3600	S	Spec, Struct	Adams	(1949) 2546
C ₁₅ H ₁₈ O ₅	Ethyl 4,5,6-trimethoxyindene-2-carboxylate	-	Sol	Group freq	Koo	(1953) 1889
C ₁₅ H ₁₈ O ₅	Helenalin oxide	-	-	Struct	Adams	(1949) 2551
C ₁₅ H ₁₈ O ₆	Tutin	-	S	Group freq	Fletcher	(1954) 1953
C ₁₅ H ₁₈ O ₆	β-Tutin	-	S	Group freq	Fletcher	(1954) 1953
C ₁₅ H ₁₈ O ₆	neo-Tutin	-	S	Group freq	Fletcher	(1954) 1953
C ₁₅ H ₁₈ O ₇	Picrotin	- 2-16 μ	S, S	Group freq, Spec, Struct	Benstead Conroy	(1952) 1042 (1952) 491

$C_{15}H_{18}O_7$	Picrotoxic acid	-	S, Sol	Group freq, Struct	Benstead	JOS - (1952)	1042
$C_{15}H_{18}O_7$	α -Picrotoxic acid	-	-	Band freq, Struct	Conroy	JACS 73 (1951)	1889
		-	S, Sol	Group freq, Struct	Benstead	JOS - (1952)	1042
		2-16 μ	S	Spec, Struct	Conroy	JACS 74 (1952)	491
$C_{15}H_{18}Si$	Methylphenyl- β -phenylethylsilane	2-16 μ	Sol	Group freq	Kniseley	SA 15 (1959)	651
$C_{15}H_{18}Si$	Trimethyl-m-xenylsilane	20-160 μ	Sol	Spec, Iso, Ident	Clark	JACS 73 (1951)	3798
$C_{15}H_{18}Si$	Trimethyl-o-xenylsilane	20-160 μ	Sol	Spec, Iso	Clark	JACS 73 (1951)	3798
$C_{15}H_{18}Si$	Trimethyl-p-xenylsilane	20-160 μ	Sol	Spec, Iso	Clark	JACS 73 (1951)	3798
$C_{15}H_{19}BrO_3$	2-Bromo derivative of 1,2-dihydro-santonin	2-15 μ	S, Sol	Struct	Kanzawa	JACS 80 (1958)	3705
$C_{15}H_{19}BrO_4$	Bromodehydrotetrahydroelenalin	-	-	Struct	Adams	JACS 71 (1949)	2554
$C_{15}H_{19}Cl$	9-Chloromethyl-sym-octahydroanthracene	-	Sol	Band freq	Scheer	JACS 77 (1955)	3300
$C_{15}H_{19}Cl$	9-Chloromethyl-sym-octahydrophenanthrene	-	Sol	Band freq	Scheer	JACS 77 (1955)	3300
$C_{15}H_{19}N$	Desoxy- α - β -erythroidinol	-	-	Group freq, Struct	Grundon	JACS 75 (1953)	2541
$C_{15}H_{19}N$	5,5-Dimethyl-3-isopropylidene-2-phenylpyrrolone	6.4 μ	Sol	Substitution effect	Meyers	JOC 24 (1959)	1233

Compound	Sol	Group freq	Author	JACS	Year	Page
C ₁₅ H ₁₉ NO Benzo [3]-7-keto-1-azabicyclo[6.4.0]dodecane	-	Group freq	Leonard	JACS	76 (1954)	3193
C ₁₅ H ₁₉ NO 1-Cyclohexyl-2-benzoylethyleneimine	2-16 μ 700-4000 Sol	Spec, Group freq Spec, Freq	Cromwell Adelfang	JACS JACS	73 (1951) 82 (1960)	1044 4241
C ₁₅ H ₁₉ NO 1,4-Dimethyl-3-butylcarbostyryl	2-16 μ Sol	Spec, Band freq	Cook	JOC	22 (1957)	211
C ₁₅ H ₁₉ NO 6-Methoxy-10-methyl-1,4,4a,9,10,10a-hexahydrophenanthridine	2-15 μ Sol,S	Band freq	Wildman	JACS	76 (1954)	152
C ₁₅ H ₁₉ NO ₄ 6-(4'-Carbomethoxy)butyl-2-hydroxy-5-oxo-6,7-dihydro-1,5H-pyridine	- Sol	Band freq, I	Ramirez	JACS	77 (1955)	1035
C ₁₅ H ₁₉ NO ₄ Ethyl 2-methyl-6-(2'-oxocyclohexyloxy)nicotinate	2-16 μ Sol	Spec, Struct	Ramirez	JOC	19 (1954)	183
C ₁₅ H ₁₉ NO ₄ 1-Methyl-6-(4'-carbomethoxy)butyl-2,5-dioxo-1,2,6,7-tetrahydro-1,5H-pyridine	- Sol	Band freq, I	Ramirez	JACS	77 (1955)	1035
C ₁₅ H ₁₉ NO ₅ 2-Ethoxycarbonylamino-4,6-dimethoxy-3,7-dimethylcoumarone	- -	Struct, Group freq	Dean	JCS	- (1955)	2166
C ₁₅ H ₁₉ NO ₅ 3-Ethyl-4-hydroxy-1-methyl-5,7,8-trimethoxy-2-quinolone	1450-4000 S	Spec, Freq	Price	AJC	12 (1959)	589

$C_{15}H_{19}NO_6$	N-Carboethoxycotarnine	-	-	Struct	Whaley	JOC	19 (1954)	666
$C_{15}H_{19}NO_6$	O^3, O^4 , N-Triacetyl-1-epinephrine	2-12 μ	S, Sol	Spec	Welsh	JACS	74 (1952)	4967
$C_{15}H_{19}N_2O$	N-Benzyl-O, N-di(2-cyano-2-propyl)hydroxylamine	-	-	Band freq, Group freq	Gingras	JCS	- (1954)	3508
$C_{15}H_{19}N_3O$	N, O-Di(2-cyano-2-propyl)-N, m-tolylhydroxylamine	-	-	Group freq, I	Gingras	JCS	- (1954)	1920
$C_{15}H_{19}N_3O$	N, O-Di(2-cyano-2-propyl)-N, o-tolylhydroxylamine	-	-	Group freq, I	Gingras	JCS	- (1954)	1920
$C_{15}H_{19}N_3O$	N, O-Di(2-cyano-2-propyl)-N-p-tolylhydroxylamine	-	-	Group freq, I	Gingras	JCS	- (1954)	1920
$C_{15}H_{20}$	Chamazulenogen	-	-	Review	Gordon	CR	50 (1952)	127
$C_{15}H_{20}$	9-Methyl-sym-octa-hydroanthracene	-	Sol	Band freq	Scheer	JACS	77 (1955)	330
$C_{15}H_{20}$	9-Methyl-sym-octa-hydrophenanthrene	2-15 μ	L, Sol	Band freq Struct, Ident	Scheer Cagniant	JACS BSCF	77 (1955) - (1957)	3300 1403
$C_{15}H_{20}ClN_3$	7-Chloro-4-diethylaminoethylaminequinoline	2.5-3.5 μ	Sol	H bond, Spec	Nachod	JACS	81 (1959)	2897
$C_{15}H_{20}N_2O$	Anagryrine, Monolupine, Rhambinine	700-1800	-	Spec Group freq Band freq, Group freq	Marion Marion Thygarajan	JACS JACS CR	70 (1948) 73 (1951) 54 (1954)	3076 305 1019
$C_{15}H_{20}N_2O$	2,6-Dicyanoethylisophorone	5.5-8 μ	Sol	Group freq	Bruson	JACS	75 (1953)	3585

JACS 74 (1952) 5209

Edgerton

Struct

-

-

5-Methyl-7-diethyl-aminomethyl-8-quinolinol hydrobromide

C₁₅H₂₀N₂O·HBr

JACS 73 (1951) 305
JACS 73 (1951) 1769
CR 54 (1954) 1019

Marion
Marion
Thyagarajan

Group freq
Spec, Ident
Band freq, Group freq

Sol
Sol
-

700-1700

Thermopsine

C₁₅H₂₀N₂O

JACS 74 (1952) 5209

Edgerton

Struct

-

-

5-Methyl-7-(ethyl-β-hydroxyethyl-aminomethyl)-8-quinolinol dihydrochloride

C₁₅H₂₀N₂O₂·2HCl

JOS - (1955) 2253
JOC 13 (1948) 682

Anet
Davis

Group freq
Spec

-
-

-
-

Apospermostrychine
5,5-Dimethyl-2-phenacetylamino-methylthiazolidine-4-carboxylic acid

C₁₅H₂₀N₂O₃
C₁₅H₂₀N₂O₃S

JACS 76 (1954) 4571

Meinwald

Spec, Ident

S

2-15 μ

2-Methyl-5-isopropyl-cyclopentanone-2,4-dinitrophenyl-hydrazone

C₁₅H₂₀N₄O₄

JACS 76 (1954) 1037

Ramirez

Spec, Group freq

Sol

2-16 μ

syn-6,6-Dimethyl-2-methoxycyclohexanone-2,4-dinitrophenyl-hydrazone

C₁₅H₂₀N₄O₅

JACS 77 (1955) 1617

Meinwald

Ident

S

-

Geronic acid-2,4-dinitrophenyl-hydrazone

C₁₅H₂₀N₄O₆

JACS 72 (1950) 4931

Leonard

Spec

Sol

650-3800

3-Methyloctahydro-pyrococline picrate

C₁₅H₂₀N₄O₇

$C_{15}H_{20}N_4O_8$	1,2-Dimethyl-1-azacyclooctan-3-one picrate	-	-	Band freq	Leonard	JACS 74 (1952)	1704
$C_{15}H_{20}N_4O_8$	dl-1,2-Dimethyl-2-ethyl-3-piperidone picrate	-	-	Freq	Leonard	JACS 75 (1953)	1674
$C_{15}H_{20}O$	Desazadesoxytetrahydro- β -erythro-idinol	-	-	Group freq	Weinstock	JACS 75 (1953)	2546
$C_{15}H_{20}O$	o- { 1- β -Ethanol-2-methyl -1,3-butadienyl } ethylbenzene	-	-	Freq	Boekelheide	JACS 74 (1952)	1066
$C_{15}H_{20}O$	9-Hydroxymethyl-sym-octahydrophenanthrene	-	Sol	Band freq	Scheer	JACS 77 (1955)	3300
$C_{15}H_{20}O_2$	Aristolactone	-	S,Sol	Band freq, Struct	Stenlake	JCS - (1955)	2114
$C_{15}H_{20}O_2$	Desazetetrahydro- α -erythroidinol	-	-	Band freq	Godfrey	JACS 77 (1955)	3342
$C_{15}H_{20}O_2$	Isoaristolactone	-	Sol	Group freq, I	Stenlake	JCS - (1955)	2114
$C_{15}H_{20}O_2$	β -Isopropyl- γ (-3-methylbut-2-enyl) tropolone	-	Sol	Group freq	Bryant	JOC 19 (1954)	1889
$C_{15}H_{20}O_3$	Anhydrodihydro- ψ -santonin	-	S	Group freq	Chopra	JCS - (1955)	588
$C_{15}H_{20}O_3$	Deoxysantoninic acid	2-15	S,Sol	Struct	Kanzawa	JACS 80 (1958)	3705
$C_{15}H_{20}O_3$	1,2-Dihydrosantonin	2-15	S,Sol	Struct	Kanzawa	JACS 80 (1958)	3705

C ₁₅ H ₂₀ ⁰³	1-Ketosanten-12,7- olide	-	Sol	Group freq	Dauben	JACS 77 (1955)	606
C ₁₅ H ₂₀ ⁰³	Methyl α -(2-hydroxy-1,2,3,4-tetrahydro-2-naphthyl)butyrate	-	S	Band freq	Dreiding	JACS 75 (1953)	3717
C ₁₅ H ₂₀ ⁰³	2-[2-(2-Methyl-3-oxo-1-cyclohexenyl)ethyl]-1,3-cyclohexanediol	-	Sol	Spec	Ananchenko	IANS - (1960)	1644
C ₁₅ H ₂₀ ⁰³	2-Methyl-2-[2-(3-oxo-1-cyclohexenyl)ethyl]-1,3-cyclohexanediol	1550-1750	Sol	Spec	Ananchenko	IANS - (1960)	1644
C ₁₅ H ₂₀ ⁰⁴	Dehydrotetrahydrohelenalin	-	-	Struct	Adams	JACS 71 (1949)	2554
C ₁₅ H ₂₀ ⁰⁴	Diethyl ethylphenylmalonate	2-15/ μ 1700-1800	L L,Sol	Freq, Spec Group freq, Iso	Abramovitch Abramovitch	CJC 36 (1958) CJC 37 (1959)	151 1146
C ₁₅ H ₂₀ ⁰⁴	Dihydrohelenalin	-	-	Struct	Adams	JACS 71 (1949)	2554
C ₁₅ H ₂₀ ⁰⁴	ψ -Santonin acid	-	-	Band freq Ident, Struct	Cooker Daubin	JCS - (1949) JACS 77 (1955)	1170 4609
C ₁₅ H ₂₀ ⁰⁴	ψ -Santonin	-	Sol,S	Group freq, Struct Ident	Chopra Dauben	JCS - (1955) JACS 77 (1955)	588 2451
C ₁₅ H ₂₀ ⁰⁴	Pseudosantonin	1600-1800	Sol,S	Spec, Group freq, Struct	Dauben	JACS 75 (1953)	3352
C ₁₅ H ₂₀ ⁰⁸	Anisatin	2-16/ μ	S	Group freq, Spec	Lane	JACS 74 (1952)	3211
C ₁₅ H ₂₀ ⁰⁸	Anisatinic acid	2-16/ μ	S	Spec, Freq	Lane	JACS 74 (1952)	3211

$C_{15}H_{21}BrO_4$	1-Keto-7-hydroxy-10-bromosanten-12,5-olide	-	-	Group freq	Dauben	JACS 77 (1955)	2451
$C_{15}H_{21}ClN_4O_5S_2$	4a-Chloro-1,4,4a,8a-tetrahydro-1,4-methanonaphthalene-5,8-bis-(dimethyl-aminosulfonimide)	-	S	Group freq	Adams	JACS 75 (1953)	667
$C_{15}H_{21}NO$	1-Methyl-3-(3-hydroxypropyl)-4-phenyl-1,2,5,6-tetrahydro-pyridine	-	-	Group freq	Mc Elvain	JACS 76 (1954)	5625
$C_{15}H_{21}NO \cdot HCl$	1-Methyl-3-(3-hydroxypropyl)-4-phenyl-1,2,5,6-tetrahydro-pyridine hydrochloride	-	S	Group freq	Mc Elvain	JACS 76 (1954)	5625
$C_{15}H_{21}NO_2$	γ -Hydroxy- γ -phenyl-butropiperidine	1500-3500	S	Assign, Spec	Cronwell	JACS 80 (1958)	4573
$C_{15}H_{21}NO_2$	2-Propyl-3-benzoyl-4-ethylloxazolidine	-	L	Group freq	Nace	JACS 75 (1953)	3646
$C_{15}H_{21}NO_2 \cdot HCl$	Ethyl 1-methyl-4-phenylpiperidine-4-carboxylate hydrochloride	650-5000	S	Spec	Manning	AFS 10 (1956)	85
$C_{15}H_{21}NO_2S$	β -Benzylsulfonyl- α -n-amypropionitrile	-	-	Spec	Ross	JACS 73 (1951)	540
$C_{15}H_{21}NO_3$	Desethylglycoramine	2-15 μ	S	Substitution effect	Wildman	JACS 76 (1954)	152
$C_{15}H_{21}NS$	β -Benzylmercapto- α -n-amypropioni-	-	-	Spec	Ross	JACS 73 (1951)	540

Chemical Formula	Chemical Name	Sol	Group freq	Author	JACS	Year
$C_{15}H_{21}N_3O_2$	Physostigmine	-	Group freq	Marion	JACS	73 (1951) 305
$C_{15}H_{21}NO_8$	Di-n-butyl isonitramine	L,S, Sol	Freq	George	CJC	37 (1959) 679
$C_{15}H_{22}$	Benzylcyclooctane	-	Ident	Cope	JACS	75 (1953) 3208
$C_{15}H_{22}BrNO_3$	2-Bromo-3-methyl-4-nitro-4,6-di-t-butyl-2,5-cyclohexadien-1-one	3.36-6.95 μ Sol	Group freq, I	Albert	JACS	76 (1954) 4979
$C_{15}H_{22}ClNO_3$	2-Chloro-3-methyl-4-nitro-4,6-di-t-butyl-2,5-cyclohexadien-1-one	3.40-6.95 μ Sol	Group freq, I	Albert	JACS	76 (1954) 4979
$C_{15}H_{22}Cl_2O$	2,4-Dichloro-3-methyl-4,6-di-t-butyl-2,5-cyclohexadien-1-one	3.4-6.85 μ Sol	I	Forman	JACS	76 (1954) 4977
$C_{15}H_{22}N_2$	1- $\Delta^5,11$ -Di dehydro-sparteine	S,Sol	Band freq	Leonard	JACS	77 (1955) 1552
$C_{15}H_{22}N_2 \cdot 2HClO_4$	1- $\Delta^5,11$ -Didehydro-sparteine diperchlorate	S	Band study	Leonard	JACS	77 (1955) 1552
$C_{15}H_{22}N_2 \cdot 2HClO_4$	$\Delta^1(6),11(16)$ -Didehydro-sparteinium diperchlorate	S	Band study	Leonard	JACS	77 (1955) 1552
$C_{15}H_{22}N_2O_5$	2,4-Dinitro-3-methyl-4,6-di-t-butyl-2,5-cyclohexadien-1-one	3.38-6.47 μ Sol	Group freq, I	Albert	JACS	76 (1954) 4979
$C_{15}H_{22}N_4O$	Diisobutyl ketone-2,4-dinitrophenylhydrazone	6-15 μ S	Spec	Ross	AC	25 (1953) 1288

$C_{15}H_{22}N_4O$	2-Nonanone-2,4-dinitrophenyl hydrazone	2-15 μ	S	Spec, Ident	Jones	AC	28 (1956)	191
$C_{15}H_{22}O$	1-(Cyclohexylidene-acetyl)-2-methylcyclohexene	2-16 μ	Sol	Spec	Turner	JACS	72 (1950)	4166
$C_{15}H_{22}O$	α -Cyperone	11.28 μ	-	Band freq, Ext coefficient	Cardwell	JCS	- (1955)	525
$C_{15}H_{22}O$	β -Cyperone	11.28 μ	-	Band freq, Ext coefficient	Cardwell	JCS	- (1955)	525
$C_{15}H_{22}O$	d- α -Cyperone	800-3400	L	Spec, Freq, Ident	Howe	JCS	- (1955)	2423
$C_{15}H_{22}O$	d-6-epi- α -Cyperone	800-3400	L	Spec, Freq	Howe	JCS	- (1955)	2423
$C_{15}H_{22}O$	Desazadesoxyhexahydro- β -erythroidinol	-	-	Group study	Weinstock	JACS	75 (1953)	2546
$C_{15}H_{22}O$	2,3,4,5,7,8,9,10,11,4a,11a,11b-Dodecahydro-5-oxo-1H-cyclohepta[a]naphthalene	-	Sol	Group freq	Rosenfelder	JCS	- (1954)	2955
$C_{15}H_{22}O$	2,3,4,6,7,8,9,10,11,6a,11a,11b-Dodecahydro-6-oxo-1H-cyclohepta[a]naphthalene	-	Sol	Group freq	Rosenfelder	JACS	76 (1954)	2955
$C_{15}H_{22}O$	Ethynyl- β -ionol	-	-	Group freq	Oroshnik	JACS	76 (1954)	2325
$C_{15}H_{22}O$	Hexyl p-xylyl ketone	1600-1800	Sol	Group freq	Fuson	JACS	76 (1954)	2526
$C_{15}H_{22}O$	Octyl phenyl ketone	1600-1800	Sol	Group freq	Fuson	JACS	76 (1954)	2526
$C_{15}H_{22}O_2$	1-Cyclohexylidene-2-(5'-methoxy-2'-oxocyclohexylidene-1')ethane	-	-	Group study	Milas	JACS	77 (1955)	4180

				Band freq, Struct	Godfrey	JACS	77 (1955)	3342
$C_{15}H_{22}O_2$	Desazahydro- α -erythroidinol	-	-					
$C_{15}H_{22}O_2$	Dihydroaristo lactone	-	Sol	Group freq	Stenlake	JCS	-	(1955) 2114
$C_{15}H_{22}O_2$	2-Methyl-2-(2-cyclohexylideneethyl)-1,3-cyclohexanedione	1550-1750	Sol	Spec	Ananchenko	IANS	-	(1960) 1644
$C_{15}H_{22}O_2$	4,4,8-Trimethyltricyclo[6.3.1.01,5]dodecane-2,9-dione	-	Sol	Group freq	Abbi	JCS	-	(1953) 3124
$C_{15}H_{22}O_3$	1,2,4,5-Tetrahydro-santonin	2-15 μ	S,Sol	Struct	Kanzawa	JACS	80	(1958) 3705
$C_{15}H_{22}O_4$	Adhumulinic acid	2.5-15 μ	Sol	Struct	Rigby	JACS	77	(1955) 2828
$C_{15}H_{22}O_4$	Dihydropseudo-santonin	1600-1800	S	Spec, Struct, Group freq	Dauben	JACS	75	(1953) 3352
$C_{15}H_{22}O_4$	Humulinic acid	-	S	Group freq, Struct	Harris Rigby	JCS JACS	-	(1952) 1906 77 (1955) 2828
$C_{15}H_{22}O_4$	Iresin	2.5-15 μ	Sol	Struct				
$C_{15}H_{22}O_4$	Isohumulinic acid	2-16 μ	Sol	Spec, Group freq	Djerassi	JACS	76	(1954) 2966
$C_{15}H_{22}O_4$	2-(β -Phenyl- α,β -dihydroxyethyl)-4,4,5,5-tetramethyl-1,3-dioxolane	-	S	Group freq, Struct	Harris	JCS	-	(1952) 1906
$C_{15}H_{22}O_4$	Tetrahydrohelelenalin	-	-	Band freq	Smith	JOC	16	(1951) 972
$C_{15}H_{22}O_4$	4,4,6,6-Tetramethyl-2-isovalerylcyclohexane-1,3,5-dione	700-3600	-	Spec, Struct	Adams	JACS	71	(1949) 2546
$C_{15}H_{22}O_4$		1500-2700	L,Sol	H bond, Assign	Chan	JCS	-	(1956) 3495

$C_{15}H_{22}O_5$	-	-	Group study, Anal	Adams	JACS 71 (1949)	1624
Ethyl 2-methyl-3-hydroxy-4-(3,5-dimethoxyphenyl)butyrate						
$C_{15}H_{22}O_5$	-	-	Band freq	Beyley	JACS 74 (1952)	1406
5-Methyl-1 β ,6 β -epoxyperhydro-(4 α ,8 α)-naphthalene-4 β ,6-diol diacetate						
$C_{15}H_{22}O_5$	-	-	Band freq	Beyley	JACS 74 (1952)	1406
5-Methyl-4 β ,6 β -epoxyperhydro-(4 α ,8 α)-naphthalene-1 β ,6-diol diacetate						
$C_{15}H_{22}O_5$	-	-	Band freq	Beyley	JACS 74 (1952)	1406
5-Methylperhydro-(4 α ,8 α)naphthalene-1 β ,4 β -diol-6-one diacetate						
$C_{15}H_{22}O_5$	-	-	Band freq	Beyley	JACS 74 (1952)	1406
5-Methylperhydro-(4 α ,8 α)naphthalene-1 α ,4 α -diol-6-one diacetate						
$C_{15}H_{22}O_5$	-	-	Struot	Adams	JACS 71 (1949)	2551
Tetrahydrohelenalin oxide						
$C_{15}H_{22}O_{10}$	2-15 μ	S	Spec	Tipson	JRNB 62 (1959)	257
D-Mannopyranose-1,2-(methyl orthoacetate)-triacetate						
$C_{15}H_{22}O_{10}$	8-15 μ	S	Spec	Kuhn	AC 22 (1950)	276
3-Methyl-D-glucose-tetraacetate						
$C_{15}H_{22}O_{10}$	2-15 μ	Sol	Anal, Band freq, I	Whistler	AC 25 (1953)	1463
Methyl tetraacetyl- α -D-galactoside	-	S	Band freq	Barker	JCS - (1954)	3468

Chemical Name	Formula	Band Freq	Sol	Spec	Band freq, I	Author	Year	Page
Methyl tetraacetyl- β -D-galactoside	$C_{15}H_{22}O_{10}$	8-15 μ 2-15 μ	S Sol S	Spec Anal, Band freq, Band freq	I	Kuhn Whistler Barker	22 (1950) 25 (1953) - (1954)	276 1463 3468
Methyl tetraacetyl- α -D-glucoside	$C_{15}H_{22}O_{10}$	8-15 μ	S Sol	Spec Anal, Band freq, I	I	Kuhn Whistler	22 (1950) 25 (1953)	276 1463
Methyl tetraacetyl- β -D-glucoside	$C_{15}H_{22}O_{10}$	8-15 μ 800-3000	S Sol S	Spec Anal, Band freq, I Freq	I	Kuhn Whistler Barker	22 (1950) 25 (1953) 186 (1960)	276 1463 307
Methyl 2,3,5,6-tetra-O-acetyl- α -D-mannofuranoside	$C_{15}H_{22}O_{10}$	700-1000	S S	Band freq, I Group freq, Band freq, I	I	Barker Barker	- (1954) - (1954)	4550 3468
Methyl tetraacetyl- α -D-mannoside	$C_{15}H_{22}O_{10}$	2-15 μ	Sol S	Anal, Band freq, I Band freq, I	I	Whistler Barker	25 (1953) - (1954)	1463 3468
Methyl tetraacetyl- β -D-mannoside	$C_{15}H_{22}O_{10}$	2-15 μ	Sol S	Anal, Band freq, I Band freq, I	I	Whistler Barker	25 (1953) - (1954)	1463 3468
D-Talopyranose-1,2 (methyl orthoacetate) triacetate	$C_{15}H_{22}O_{10}$	2-15 μ	S	Spec		Tipson	JRNB 62 (1959)	257
1,2,3,4-Tetra-O-acetyl-6-O-methyl- α -D-glucopyranose	$C_{15}H_{22}O_{10}$	-	S	Band freq, I		Barker	JCS - (1954)	3468
Triacetyl- β -D-talose-1,2-(methyl orthoacetate)	$C_{15}H_{22}O_{10}$	2-15 μ	S	Spec, Config		Isbell	JRNB 57 (1956)	179
S-(Tetraacetyl- β -D-galactopyranosyl)thiuronium bromide	$C_{15}H_{23}BrN_2O_9S$	8-15 μ	S	Spec		Bonner	JACS 73 (1951)	2241

$C_{15}H_{23}BrO$	2-Bromo-3-methyl-4,6-di-t-butylphenol	2.83-7.21 μ	Sol	Table, I	Forman	JACS 76 (1954) 4977
$C_{15}H_{23}ClN_2O_3$	5-Chloro-3,6-bis-butylamino-2-methoxy-p-benzoquinone	2200-800	Sol	Band freq	Buckley	JCS - (1957) 4891
$C_{15}H_{23}ClO$	2-Chloro-3-methyl-4,6-di-t-butylphenol	2.8-7.2 μ	L	Table, I	Forman	JACS 76 (1954) 4977
$C_{15}H_{23}Cl_3OSi$	Trichlorosilylonyl phenyl ether	-	-	Inductive effect	Josien	CPR 249 (1959) 826
$C_{15}H_{23}IN_2O_2$	3-(β -Dimethylaminoethyl)-5,6-dimethoxyindole methiodide	-	S	Freq	Walker	JACS 77 (1955) 3844
$C_{15}H_{23}NO$	Benzo[c]-7-hydroxyazocyclododecane	-	-	Group study	Leonard	JACS 76 (1954) 3193
$C_{15}H_{23}NO$	Benzo[c]-1-methyl-7-hydroxyazocyclododecane	-	Sol	Group freq, Band freq	Leonard	JACS 76 (1954) 3193
$C_{15}H_{23}NO$	α -Cyperone oxime	11.28 μ	-	Band freq, Ext coefficient	Cardwell	JCS - (1955) 525
$C_{15}H_{23}NO$	β -Cyperone oxime	11.28 μ	-	Band freq, Ext coefficient	Cardwell	JCS - (1955) 525
$C_{15}H_{23}NO$	2-Piperidinethymol	-	S	Group freq	Eastman	JACS 76 (1954) 4118
$C_{15}H_{23}NO_2$	Octahydro- α - β -erythroidine	2-15 μ	S	Speco, Group freq	Grundon	JACS 74 (1952) 2637
$C_{15}H_{23}NO_2$	Tetrahydrodesmethoxy-	-	-	Group freq	Boetelheide	JACS 75 (1953) 2558

Chemical	Wavenumber	Phase	Method	Author	Year	Page
$C_{15}H_{23}NO_3$	2-99-6.96 μ	Sol	Group freq, I	Albert	JACS 76 (1954)	4979
2-Nitro-3-methyl-4,6-di-t-butylphenol						
$C_{15}H_{23}NO_4$	2-15 μ	Sol	Spec, Struct, Anal	Kornfeld	JACS 71 (1949)	150
Actidione						
$C_{15}H_{23}NO_5$	2-15 μ	Sol	Spec	Sheehan	JACS 73 (1951)	1761
1-Cyclohexyl-4,4-dicarbethoxy-2-azetidione						
$C_{15}H_{23}NO_9$	-	S	Band freq, I	Barker	JCS - (1954)	3468
Methyl 3-acetamido-2,4,5-tri-O-acetyl-3-deoxy- β -D-glucopyranoside						
$C_{15}H_{23}N_3O_5$	650-3600	S	Group study, Struct	Tanner	SA 8 (1956)	9
2-Amino-4-hydroxy-5-(2'-tetrahydropyranoxy)-6-(2'-tetrahydro-pyranoxymethyl)pyrimidine						
$C_{15}H_{23}N_3O_{12}S$	8-15 μ	S	Spec	Bonner	JACS 73 (1951)	2241
S-(Tetraacetyl- β -D-glucopyranosyl)thiuronium nitrate						
$C_{15}H_{24}$	-	-	Band freq	Birch	JCS - (1953)	715
Aromadendrene						
$C_{15}H_{24}$	-	Sol	Group freq	Aebi	JCS - (1953)	3124
Caryophyllene						
$C_{15}H_{24}$	-	-	Ident	Lutz	JCS - (1954)	2265
Clowene						
$C_{15}H_{24}$	-	-	Ident	Lutz	JCS - (1954)	2265
Pseudoclovene						
$C_{15}H_{24}$	800-3600	L	Spec, Struct, Freq	Narasimhan	PIAS 43 (1956)	156
Cyperene-II						
$C_{15}H_{24}$	-	Sol	Spec, Assign, Freq	Mc Caulay	JACS 76 (1954)	2354
1,3-Di-t-butyl-5-methylbenzene						
$C_{15}H_{24}$	-	Sol	Group freq	Aebi	JCS - (1953)	3124
Isocaryophyllene						

$C_{15}H_{24}$	Longifolene	-	-	Band freq, Struct	Zeiss	JACS	76 (1954)	1653
$C_{15}H_{24}$	1-Methyl-3-5-di- butylbenzene	700-1000	S	Group study	Bellamy	JCS	- (1955)	2818
$C_{15}H_{24}$	2-Methyl-2-phenyl- octane	2-15 μ	L	Spec, Struct	Hawkes	SA	16 (1960)	633
$C_{15}H_{24}$	Metrosiderene	-	-	Group freq, Struct	Corbett	JCS	- (1954)	1179
$C_{15}H_{24}$	1,3,5-Triisopropyl- benzene	5-6 μ	-	Spec	Young	AC	23 (1951)	709
		868	Sol	Spec, Freq, Assign	Mc Caulay	JACS	76 (1954)	2354
			Sol	Freq, I	La Lau	SA	14 (1959)	181
$C_{15}H_{24}$	2,2,4-Trimethyl-4- (m-tolyl)pentane	-	-	Ident, Struct, Anal	Sanford	JACS	75 (1953)	6326
$C_{15}H_{24}$	2,2,4-Trimethyl-4- (p-tolyl)pentane	-	-	Ident, Struct, Anal	Sanford	JACS	75 (1953)	6326
$C_{15}H_{24}ClN_5$	2,4-Di(cyclohexyl) amino-6-chloro- 1,3,5-triazine	2-16 μ	S	Spec, Struct	Padgett	JACS	80 (1958)	803
$C_{15}H_{24}N_2$	1- Δ^5 -Dehydro- sparteine	-	Sol	Band freq	Leonard	JACS	77 (1955)	1552
$C_{15}H_{24}N_2 \cdot HClO_4$	1- Δ^5 -Dehydro- sparteine mono- perchlorate	-	S,Sol	Band freq	Leonard	JACS	77 (1955)	1552
$C_{15}H_{24}N_2 \cdot HClO_4$	$\Delta^{1(6)}$ -Dehydro- sparteinium perchlorate	-	S,Sol	Band freq	Leonard	JACS	77 (1955)	1552
$C_{15}H_{24}N_2 \cdot HClO_4$	$\Delta^{11(16)}$ -Dehydro- sparteinium	-	Sol	Band freq	Leonard	JACS	77 (1955)	1552

Chemical	Form	Sol	Band freq	Author	JACS	Year
$C_{15}H_{24}N_2 \cdot 2HClO_4$	$\Delta^{1(6)}$ -Dehydro-sparteinium diperchlorate	S	Band freq	Leonard	77	(1955) 1552
$C_{15}H_{24}N_2 \cdot 2HClO_4$	$\Delta^{11(16)}$ -Dehydro-sparteinium diperchlorate	S	Band freq	Leonard	77	(1955) 1552
$C_{15}H_{24}N_2O$	Isolupanine	Sol	Group freq	Marion	73	(1951) 305
$C_{15}H_{24}N_2O$	Lupanine	Sol	Group freq	Marion	73	(1951) 305
$C_{15}H_{24}N_2O_3$	3,6-bis-butylamino-2-methoxy-p-benzoquinone	Sol	Band freq	Buckley	JCS	- (1957) 4891
$C_{15}H_{24}N_2S$	N-Phenyl-N'-N'-dibutylthiourea	-	Band freq	Buswell	JPC	44 (1940) 1126
$C_{15}H_{24}N_4O_4$	2,4-Diamino-5-(2'-tetrahydropryanoxy)-6-(2'-tetrahydropryanoxymethyl)pyrimidine	S	Group study, Freq	Tanner	SA	8 (1956) 9
$C_{15}H_{24}N_4O_7$	N-Methyloctylamine picrate	S	Spec	Leonard	JACS	74 (1952) 1704
$C_{15}H_{24}N_4O_7$	Tri-n-propylamine picrate	S	Spec	Mitchell	JACS	65 (1943) 128
$C_{15}H_{24}O$	2,4-Di-s-butyl-1-methoxybenzene	Sol	Group freq	Puttnam	JCS	- (1960) 2934
$C_{15}H_{24}O$	2-Methyl-4,6-di-s-butylphenol	Sol	Group freq	Puttnam	JCS	- (1960) 2934
$C_{15}H_{24}O$	2-Methyl-4,6-di-t-butylphenol	Sol	Spec	Shrewsbury	SA	16 (1960) 1294
$C_{15}H_{24}O$	2,5-3,6-di-s-butylphenol	Sol, S ₁ , S ₂ , Sol	Spec, Freq H bond	Coggeshall	JACS	69 (1947) 1620
				Sears	JACS	71 (1949) 4110

$C_{15}H_{24}O$	6-Methyl-2,4-di- <i>t</i> -butylphenol	-	Sol	Spec	Goddue	JACS 82 (1960) 4533
$C_{15}H_{24}O$	4-Methyl-2,5-di- <i>s</i> -butylphenol	650-1400	Sol	Spec	Shrewsbury	SA 16 (1960) 1294
$C_{15}H_{24}O$	4-Methyl-2,5-di- <i>t</i> -butylphenol	- 3500-3800	Sol Sol	Spec Freq, Hammett const	Goddu Puttnam	JACS 82 (1960) 4533 JCS - (1960) 5100
$C_{15}H_{24}O$	4-Methyl-2,6-di- <i>s</i> -butylphenol	- 900-1030 3500-3800	- Sol Sol	Spec Freq shift Group freq Group freq, Hammett constant	Coggeshall Puttnam Puttnam	JACS 69 (1947) 1620 JCS - (1960) 5100 JCS - (1960) 2934
		650-1400	Sol	Spec	Shrewsbury	SA 16 (1960) 1294
$C_{15}H_{24}O$	4-Methyl-2,6-di- <i>t</i> -butylphenol	3μ 2.6-3.6 μ 3μ	Sol,S S Sol, L,S	Spec, Freq shift Spec, Struct H bond	Coggeshall Mc Kinley Sears	JACS 69 (1947) 1620 JACS 69 (1947) 1624 JACS 71 (1949) 4110
		2-12 μ	L	Spec	Poti	AC 25 (1953) 1461
		-	-	I	Brown	JCP 24 (1956) 1281
		2.95-3.38 μ	Sol	I	Hughes	JCP 24 (1956) 489
		-	Sol	Spec	Goddu	JACS 82 (1960) 4533
		3500-3800	Sol	Group freq, Hammett constant	Puttnam	JCS - (1960) 5100
		650-1400	Sol	Spec	Shrewsbury	SA 16 (1960) 1294
$C_{15}H_{24}O$	o-Noxyphenol	2.84 μ	Sol	Anal	Shrewsbury Spell	SA 16 (1960) 1294 AC 32 (1960) 1811
$C_{15}H_{24}O$	2- <i>tt</i> -Octyl-4-methylphenol	3μ	Sol, L,S	H bond	Sears	JACS 71 (1949) 4110
$C_{15}H_{24}O$	2,4,5-Tri-isopropylphenol	650-1400	Sol	Spec	Shrewsbury	SA 16 (1960) 1294
$C_{15}H_{24}O$	2,4,6-Tri-isopropylphenol	2-16 μ 650-1400	Sol Sol	Spec, Group freq, Anal Spec	Morton Shrewsbury	JACS 76 (1954) 2973 SA 16 (1960) 1294

C ₁₅ H ₂₄ O ₂	Carissone	-	-	Group freq	Barton	JCS - (1954) 3492
C ₁₅ H ₂₄ O ₂	1-Cyclohex-3-enyl-2-cyclohexylidene-propane-1,3-diol	-	-	Ident, Group freq	Hawkins	JCS - (1955) 1462
C ₁₅ H ₂₄ O ₂	Decahydro-4,9-dimethyl-10-hydroxy-6-iso-propenyl-3-oxo-naphthalene	-	-	Group freq	Mc Quillin	JCS - (1955) 528
C ₁₅ H ₂₄ O ₂	Deoxotetrahydrodrosantonin	2-15 μ	S, Sol	Struct	Kanzawa	JACS 80 (1958) 3705
C ₁₅ H ₂₄ O ₂	2,5-Di-t-butyl-4-methoxyphenol	3200-3800	Sol	Spec, Freq	Cook	JACS 77 (1955) 1672
C ₁₅ H ₂₄ O ₂	2,6-Di-t-butyl-4-methoxyphenol	3 μ 3200-3800	Sol Sol	H bond Spec, Group freq	Sears Cook	JACS 71 (1949) 4110 JACS 77 (1955) 1672
C ₁₅ H ₂₄ O ₂	Ethyl chrysanthemumate cyclopropane	3-11 μ	L, S	Spec, Struct	Allen	JOC 22 (1957) 1291
C ₁₅ H ₂₄ O ₂	α-4-Ethyl-3-methyl-2-phenyl-2,4-hexanediol	-	-	Ident	Zimmerman	JACS 76 (1954) 2294
C ₁₅ H ₂₄ O ₂	β-4-Ethyl-3-methyl-2-phenyl-2,4-hexanediol	-	-	Ident	Zimmerman	JACS 76 (1954) 2294
C ₁₅ H ₂₄ O ₂	2-Oxo-4,4,8-trimethyl-5β-tricyclo[6.3.1.0 ^{1:5}]dodecane-9α-ol	-	-	Stretch freq	Aebi	JCS - (1954) 4659
C ₁₅ H ₂₄ O ₂	2-Oxo-4,4,8-trimethyl-5β-tricyclo[6.3.1.0 ^{1:5}]dodecan-9β-ol	-	-	Stretch freq	Aebi	JCS - (1954) 4659
C ₁₅ H ₂₄ O ₂	4,4,8-Trimethyl-2-oxotri-cyclo[6.3.1.0 ^{1:5}]dodecan-9-ol	-	Sol	Group freq, Struct, Iso	Aebi	JCS - (1953) 3124

$C_{15}H_{24}O_3$	Ethyl decahydro- β -keto-8,8-dimethyl-10-hydroxy-2-naphthoate	2.5-16 μ	S	Spec, Group freq	Stauffacher	HCA 37 (1954)	1227
$C_{15}H_{24}O_3S$	γ -Methyl- β -isopropyl- β -hydroxy-n-butyl p-tolyl sulfone	-	-	Group study	Field	JACS 76 (1954)	5582
$C_{15}H_{24}O_4$	Dihydrolumerlinic acid	2-10 μ	S	Spec, Struct, Group freq	Harris	JCS - (1952)	1906
$C_{15}H_{24}O_4$	Ethyl 2-acetyl- β -(2,2-dimethyl-6-ketocyclohexyl) propionate	2.5-16 μ	-	Spec, Group freq	Stauffacher	HCA 37 (1954)	1227
$C_{15}H_{24}O_4$	Isodihydroiresin	-	Sol	Band freq	Djerassi	JACS 76 (1954)	2966
$C_{15}H_{24}O_4$	Tetrahydropseudo-santonin	1600-1750	S	Spec, Struct, Group freq	Dauben	JACS 75 (1953)	3357
$C_{15}H_{24}O \cdot XH_2O$	Tetrahydro- ψ -santoninic acid (hydrated)	-	-	Band freq, H bond	Cocker	JCS - (1949)	1170
$C_{15}H_{24}O \cdot H_2O$	Aucubin	755-3356	S	Table, I	Briggs	JCS - (1954)	4182
$C_{15}H_{25}NO_2$	Hexahydrodesmethoxy- β -erythroidinol	-	-	Ident, Struct Struct, Iso	Boekelheide Boekelheide	JACS 75 (1953) JACS 75 (1953)	2550 2558
$C_{15}H_{26}$	1,3-Dicyclopentyl-cyclopentane	3-14.7 μ	Sol, L	Struct, Anal	Francis	AC 25 (1953)	1466
$C_{15}H_{26}$	Dihydrocycperene-II	800-3600	L	Spec, Freq, Struct	Narasimhan	PIAS 43 (1956)	156
$C_{15}H_{26}$	Dihydrohumulene	700-1500	L	Spec, Group freq	Clemo	JCS - (1952)	665
$C_{15}H_{26}N_2$	dl-Spartalupine	-	-	Ident	Carmack	JACS 77 (1955)	4435

Formula	Compound Name	Wavenumber Range	State	Ident	Author	Year
C ₁₅ H ₂₆ N ₂	1-Spartalupine	-	-	-	Carmack	JACS 77 (1955) 4435
C ₁₅ H ₂₆ N ₂	d, l-or-dl-Sparteine	1-12 μ 600-3800	L	Spec	O'Byrne	JOSA 23 (1933) 92
C ₁₅ H ₂₆ N ₂	(dl-or l)- α -iso-Sparteine	600-3800	Sol, S	Spec	Leonard	JACS 72 (1950) 1316
C ₁₅ H ₂₆ N ₂ ·H ₂ SO ₄ ·5H ₂ O	Sparteine sulfate pentahydrate	1-9 μ	L	Spec	O'Byrne	JOSA 23 (1933) 92
C ₁₅ H ₂₆ O	l-Cedrol	-	-	Struct, Ident	Stork	JACS 77 (1955) 1072
C ₁₅ H ₂₆ O	β -(4,8-dimethylnonyl)furan	2-15 μ	L	Spec	Quillio	TE 1 (1957) 186
C ₁₅ H ₂₆ O	Ethyl- β -ionol	2-16 μ	-	Spec, Group freq	Oroshnick	JACS 76 (1954) 2325
C ₁₅ H ₂₆ O	Guaiol	3600-3650	Sol	Group freq, Group study	Cole	JCS - (1959) 1218
C ₁₅ H ₂₆ OSi	Trimethylsilyl-hexyl phenyl ether	-	-	Inductive effect	Josien	CPR 249 (1959) 826
C ₁₅ H ₂₆ O ₂	Hexahydroaristolactone	-	S, Sol	Band freq, Group freq, Struct	Stenlake	JCS - (1955) 2114
C ₁₅ H ₂₆ O ₂	3,6,6,10-Tetramethylcyclohexane-1,2-dione	740-3500	L	Table	Fawcett	JCS - (1954) 2669
C ₁₅ H ₂₆ O ₄	Diethyl (1-methylpentenyl-4)ethylmalonate	-	-	Struct	Wood	JACS 75 (1953) 5511
C ₁₅ H ₂₆ O ₄	Hexahydroseudesantonin	1600-1800	S	Spec, Struct, Group freq	Dauben	JACS 75 (1953) 3352
C ₁₅ H ₂₆ O ₅	Methyl β -(1-methyl-2-hydroxy-2-carbethoxymethyl-cyclohexyl)propionate	-	Sol	Band freq	Dreiding	JOC 19 (1954) 241
C ₁₅ H ₂₆ Si	Phenyltriisopropylsilane	-	-	Band freq	George	JACS 77 (1955) 1677

$C_{15}H_{27}BrO$	2-Bromocyclopentadecanone	-	-	Spec	Leonard	JACS 80 (1958) 6039
$C_{15}H_{27}N$	N-(1,3-Dimethylbutyl)-3,3,5-trimethyl-5-cyclohexenimine	-	-	Band freq	Smith	JACS 75 (1953) 3316
$C_{15}H_{27}NO$	Pellitorine	2.5-14 μ	S	Spec, Band freq	Crombie	JCS - (1952) 4338
$C_{15}H_{27}N_2O_6$	Tetra-L-alanyl-L-alanine	-	S	Struct comparison	Zahn	A 636 (1960) 132
$C_{15}H_{28}$	1,1-Dicyclohexylpropane	15-35 μ	S	Band freq Spec, Struct	Bomstein Bentley	AC 25 (1953) 512 SA 15 (1959) 165
$C_{15}H_{28}$	1,3-Dicyclohexylpropane	8000-9000	Sol	Group anal Band freq	Hibbard Bomstein	AC 21 (1949) 486 AC 25 (1953) 512
$C_{15}H_{28}$	1-Octylcycloheptene	-	-	Spec, Freq	Brini	BSCF - (1959) 1188
$C_{15}H_{28}$	Tetrahydrocycperene-II	800-3600	L	Spec, Freq, Struct	Narasimhan	PIAS 43 (1956) 156
$C_{15}H_{28}$	Tetrahydrohumulene	700-1500	L	Spec, Group freq	Clema	JCS - (1952) 665
$C_{15}H_{28}$	Tetrahydroisozingiberene	-	-	Ident, Spec	Corbett	JCS - (1954) 1179
$C_{15}H_{28}$	Tetrahydrometrosiderene	-	-	Ident, Spec	Corbett	JCS - (1954) 1179
$C_{15}H_{28}ClNO_3$	Dodecyl N-chloroacetyl-carbamate	650-4000	Sol	Spec	Pianka	JCS - (1960) 983
$C_{15}H_{28}O$	Cyclopentadecanone	-	G, Sol	Group freq	Josien	CFR 246 (1958) 1849
		-	Sol	Group freq	Leonard	JACS 80 (1958) 6039
		-	Sol	Group freq	Burer	HCA 43 (1960) 1487
$C_{15}H_{28}O_2$	15-Hydroxypentadecanoic acid lactone	5.4-10.8 μ	-	Spec	Allen	JOC 14 (1949) 754
$C_{15}H_{28}O_2$	Lauryl acrylate	2-15 μ	L	Spec, Assign	Walton	JACS 79 (1957) 3985
C_8H_8O $C_{15}H_{28}O_4$	Diethyl di-t-butylmalonate	2-15 μ	L	Spec, Group freq	Abramovitch	CJC 36 (1958) 151

$C_{15}H_{29}N$	Aminotetrahydrohumulene	800-1500	L	Spec, Group freq	Clemon	JCS -	(1952)	665
$C_{15}H_{29}N$	Pentadecanonitrile	-	-	Group freq	Kitson	AC	24 (1952)	334
$C_{15}H_{29}NO$	3,3-Dimethyl-1-N-(α , α' , α'' -tetramethylpiperidyl)-2-butanone	-	L	Group freq	Leonard	JACS	77 (1955)	3272
$C_{15}H_{29}NO_2$	1-Methyl-1-azacyclopentadecan-8-ol-9-one	-	Sol	Group freq	Leonard	JACS	76 (1954)	5708
$C_{15}H_{29}NO_4$	Diethyl γ - γ' -isopropylimino-bis-butyrate	-	L	Group freq	Leonard	JACS	76 (1954)	3463
$C_{15}H_{29}N_5O$	2-Lauroxy-4,6-diamino-1,3,5-triazine	2-16 μ	S	Spec, Struct	Padgett	JACS	80 (1958)	803
$C_{15}H_{30}$	Cyclopentadecane	650-1600	S.L	Spec	Billetter	HCA	41 (1958)	338
$C_{15}H_{30}$	Hexahydrohumulene	700-1500	L	Spec, Group freq	Clemon	JCS -	(1952)	665
$C_{15}H_{30}$	1-Pentadecene	-	-	Group freq	Bonino	TFS	25 (1929)	876
$C_{15}H_{30}$	Triisooamylene	-	S	Band assign	Harrah	JCP	33 (1960)	298
$C_{15}H_{30}$	2-Cyanoethyldodecylamine	1250-1550	-	Spec	Barnes	IEC	15 (1943)	659
$C_{15}H_{30}N_2$	N,N' -Tri-isobutylmelamine	2-16 μ	L	Spec, Group freq	Dubrow	JOC	17 (1952)	1043
$C_{15}H_{30}N_6$	N,N',N'' -Tri-n-butylmelamine	2-16 μ	S	Spec, Struct	Padgett	JACS	80 (1958)	803
$C_{15}H_{30}N_6$	β -(4,8-Dimethylnonyl)tetrahydrofuran	2-16 μ	L	Spec, Struct	Padgett	JACS	80 (1958)	803
$C_{15}H_{30}O$		2-15 μ	L	Spec	Quilico	TE	1 (1957)	186

$C_{15}H_{30}O_2$	2-n-Butyl-2-ethyl-nonanoic acid	7-15	Sol	Spec, Band freq, Struct	Freeman	JACS	74 (1952)	2523
$C_{15}H_{30}O_2$	4-n-Butyl-4-ethyl-nonanoic acid	7-15 μ	Sol	Spec, Band freq, Struct	Freeman	JACS	74 (1952)	2523
$C_{15}H_{30}O_2$	5-n-Butyl-5-ethyl-nonanoic acid	7-15 μ	Sol	Spec, Band freq, Struct	Freeman	JACS	74 (1952)	2523
$C_{15}H_{30}O_2$	Methyl myristate	1-12 μ	Sol	Spec, Ext coefficient	O'Connor	JAOC	28 (1951)	154
$C_{15}H_{30}O_2$	n-Pentadecanoic acid	710-730 2-15 μ	S S	Band freq, Spec Spec, Anal	Chapman Meiklejohn	JCS AC	- (1957) 29 (1957)	4487 329
$C_{15}H_{30}O_4$	1-Monolaurin	650-3500	S	Struct	Chapman	JCS	- (1956)	55
$C_{15}H_{30}O_4$	2-Monolaurin	650-3500	S	Spec, Struct	Chapman	JCS	- (1956)	55
$C_{15}H_{30}Si$	Cyclopentamethylene-diisoamylsilane	2-35 μ	L	Spec, Assign	Oshesky	JACS	79 (1957)	2057
$C_{15}H_{31}Cl_3OSi$	Trichlorosilyl-undecyl butyl ether	-	-	Inductive effect	Josien	CPR	249 (1959)	826
$C_{15}H_{31}N$	Aminohexahydrohumulene	700-1500	L	Spec, Group freq	Clemon	JCS	- (1952)	665
$C_{15}H_{31}NO$	cis-2-Aminocyclopentadecanol	-	Sol	Freq, Assign	Sicher	CCCC	24 (1959)	950
$C_{15}H_{31}NO$	trans-2-Aminocyclopentadecanol	-	Sol	Freq, Assign	Sicher	CCCC	24 (1959)	950
$C_{15}H_{31}NO$	2-n-Propyl-3-(α , γ -dimethylbutyl)-4,5,5-trimethyl-oxazolidine	1080-1190	-	Band freq	Bergmann	JACS	73 (1951)	5662
$C_{15}H_{31}NO_2$	1,2-Propanediol-dicyclohexylamine adduct	1000-3750	S	H bond	Nakagama	BCSJ	33 (1960)	433

$C_{15}H_{31}NO_2$	1,3-Propanediol-dicyclohexylamine adduct	1000-3750	S	H bond						Nakagawa	BCSJ 33 (1960)	433
$C_{15}H_{31}NO_3$	Dicyclohexylamine-glycerol adduct	1000-3750	S	H bond						Nakagawa	BCSJ 33 (1960)	433
$C_{15}H_{32}$	Isopentadecane	1250-1625	-	Spec						Barnes	IEC 15 (1943)	659
$C_{15}H_{32}$	Pentadecane	-	-	Group anal						Hastings	AC 24 (1952)	612
		8-13 μ	S	Freq						Stein	JCP 22 (1954)	1993
		700-3000	Sol	Ext coefficient						Jones	SA 9 (1957)	235
$C_{15}H_{32}O$	3,3-Di-n-butylheptanol-2	665-5000	L	Group freq						Ziess	JACS 75 (1953)	897
$C_{15}H_{32}Si$	Cyclopentamethylene-di-N-amyisilane	2-35 μ	L	Spec, Assign						Oshesky	JACS 79 (1957)	2057
$C_{15}H_{32}Si$	Cyclopentamethylene-di-isoamyisilane	2-35 μ	L	Spec, Assign						Oshesky	JACS 79 (1957)	2057
$C_{15}H_{33}N$	Triisoamyamine	1-12 μ	L	Spec						Bell	JACS 49 (1927)	1837
		0.6-2.4 μ	L	Group study						Ellis	JACS 50 (1928)	685
$C_{15}H_{33}NO$	n-(α, γ -Dimethylbutyl)-N-n-butyl-2-amino-3-methyl-3-butanol	1070-3320	-	Band freq						Bergmann	JACS 73 (1951)	5662
		-	Sol	Group freq, H bond						Bergmann	JACS 75 (1953)	68
$C_{15}H_{33}O_3P$	Trineopentyl phosphite	750-1600	L,Sol	Spec, Group freq						Bellamy	JCS - (1952)	475
$C_{15}H_{33}O_3B$	Tri-n-amy borate	670-1800	S	Spec, Freq						Werner	AJC 8 (1955)	355
$C_{15}H_{34}N_2O$	Urea-n-tetradecane complex	-	-	Freq, Struct						Scrocco	AAN 24 (1958)	435
$C_{15}H_{34}OSi$	Trimethylsilyloctyl butyl ether	-	-	Inductive effect						Josien	CPR 249 (1959)	826
$C_{15}H_{34}OSi$	Trimethylsilyldecyl ethyl ether	-	-	Inductive effect						Josien	CPR 249 (1959)	826
$C_{15}H_{34}OSi$	Trimethylsilylundecyl methyl ether	-	-	Inductive effect						Josien	CPR 249 (1959)	826

C₁₆ COMPOUNDS

C ₁₆ H ₄ Cl ₄ O ₄	3,2'-Dioxo-5,5',7,7'-tetrachloro-2,3'-bibenzofuran	2-14 μ	S	Spec	Stefanye	JOC	20 (1955)	813
C ₁₆ H ₆ Br ₂ Cl ₂ N ₂ O ₃	4,4'-Dichloro-5,5'-dibromoindigo	-	S	H bond	Weinstein	JACS	78 (1956)	2387
C ₁₆ H ₆ Br ₄ N ₂ O ₂	5,5',7,7'-Tetrabromoindigo	2-3 μ	S	H bond Spec	Weinstein Wyman	JACS JACS	78 (1956) 78 (1956)	2387 4599
C ₁₆ H ₆ Cl ₄ O ₃	3-Hydroxy-5,5',7,7'-tetrachloro-2,3'-bibenzofuran	2-14 μ	S	Spec	Stefanye	JOC	20 (1955)	813
C ₁₆ H ₈ Br ₂ N ₂ O ₂	5,5'-Dibromoindigo	-	S	H bond	Weinstein	JACS	78 (1956)	2387
C ₁₆ H ₈ Br ₂ O ₂	3,3'-Dibromo-2,2'-dibenzofuran	600-1600	S	Spec	Toda	BCSJ	33 (1960)	1287
C ₁₆ H ₈ Cl ₂ N ₂ O ₄	4,4'-Dichloroindigo	-	S	H bond	Weinstein	JACS	78 (1956)	2387
C ₁₆ H ₈ Cl ₂ N ₂ O ₄	bis-(p-Chlorobenzoyl)furoxan	-	S, Sol	Table, I, Group freq	Boyer	JACS	77 (1955)	4238
C ₁₆ H ₈ Cl ₂ N ₂ O ₄	bis-(p-Chlorobenzoyl)furoxan	-	S, Sol	Table, I, Group freq	Boyer	JACS	77 (1955)	4238

Chemical Formula	Wavenumber	State	Assignment	Author	Journal	Year	Page
$C_{16}H_8F_2N_2O_2$	-	S	5,5 -Difluoro-indigo	H bond	JACS	78 (1956)	2387
$C_{16}H_8F_2N_2O_2$	-	S	7,7 -Difluoro-indigo	H bond	JACS	78 (1956)	2387
$C_{16}H_8I_2O_2$	600-1600	S	3,3'-Diodo-2,2'-dibenzofuran	Spec	BCSJ	33 (1960)	1287
$C_{16}H_8NO_4$	-	S	bis-(m-Nitro-benzoyl)furoxan	Table, I, Group freq	JACS	77 (1955)	4238
$C_{16}H_8NO_4$	-	S	bis-(p-Nitro-benzoyl)furoxan	Table, I, Group freq	JACS	77 (1955)	4238
$C_{16}H_8NO_6$	-	S	bis-(m-Nitro-benzoyl)furoxan-azine	Table, I, Group freq	JACS	77 (1955)	4238
$C_{16}H_8NO_6$	-	S	bis-(p-Nitro-benzoyl)furoxan-azine	Table, I, Group freq	JACS	77 (1955)	4238
$C_{16}H_8O_2$	-	S	Pyrenequinone-3,8	Group freq	JACS	73 (1951)	478
$C_{16}H_8O_2$	1600-1800	S	Pyrenequinone 3,10	Group freq Group freq	JACS JCP	73 (1951) 21 (1953)	478 331
$C_{16}H_8O_2S$	1650	S	Thioindigo	Group freq	JCS	- (1948)	1441
$C_{16}H_9NOS$	2-7/ μ	S	1-Ketoquinolino-(3:2-3:4)-2-thioisochromen	Bond & Group freq, Struct	JACS	76 (1954)	1034
	-	S		H bond	JACS	78 (1956)	2387
$C_{16}H_9NOS$	-	-		Struct	JCS	- (1951)	1909

$C_{16}H_9NO_3$	9,10-Methylene- dioxy-7-oxo-7H- dibenzo [f,hi] - pyrrocoline	-	S	Group freq	Cook	JCS - (1954)	4176
$C_{16}H_{10}$	1,4-Diphenyl-1,3- butadiyne	-	S	Group freq	Armitage	JCS - (1954)	147
$C_{16}H_{10}$	Fluoranthrene	690-2020	Sol	Spec	Cannon	SA 4 (1951)	373
$C_{16}H_{10}$	Pyrene	660-2020	Sol	Spec	Cannon	SA 4 (1951)	373
$C_{16}H_{10}N_2$	Diphenylfumarate dinitrile	-	Sol	Group freq, I	Felton	JCS - (1955)	2170
$C_{16}H_{10}N_2O_2$	Benzoyl cyanide dimer	750-4000	S	Spec, Struct, Anal	Marrel	JACS 71 (1949)	34
$C_{16}H_{10}N_2O_2$	Indigo	2-7 μ 700-2000	S	Band & Group freq	Brode	JACS 76 (1954)	1034
			S	Spec, Band freq	Bergmann	JACS 77 (1955)	1549
			S	H bond	Weinstein	JACS 78 (1956)	2387
		2-3 μ	S	Spec	Wyman	JACS 78 (1956)	4599
$C_{16}H_{10}N_2O_2$	i-Indigo	700-2000	S	Spec, Group freq	Bergmann	JACS 77 (1955)	1549
$C_{16}H_{10}N_2O_2$	Indirubin	700-2000	S	Spec, Group freq	Bergmann	JACS 77 (1955)	1549
$C_{16}H_{10}N_2O_4$	Dibenzoylfuroxan	600-4000	S,Sol	Spec, Group freq, I	Boyer	JACS 77 (1955)	4238
$C_{16}H_{10}N_4O$	3-(2'-Quinazolyl)- 4-quinazolone	718-2915	S	Table, Group freq, I	Culbertson	JACS 76 (1954)	3533
$C_{16}H_{10}N_4O$	3-(4'-Quinazolyl)- 4-quinazolone	702-2915	S	Table, I, Group freq	Culbertson	JACS 76 (1954)	3533
$C_{16}H_{10}N_4O_2$	Dibenzoylfuroxan- azine	-	S,Sol	Table, I, Group freq	Boyer	JACS 77 (1955)	4238
$C_{16}H_{10}N_8$	Tetraazaporphin	400-4000	S	Spec, H bond	Mason	JCS - (1958)	976

	600-1600	S	Spec	Toda	JCS	33 (1960)	1287
$C_{16}H_{10}O_2$	600-1600	S	Spec	Toda	BCSJ	33 (1960)	1287
2,2'-Dibenzofuran							
Dibenzoylacetylene	6.14-14.20 μ	S	Table, Group freq	Kuhn	JACS	72 (1950)	5058
$C_{16}H_{10}O_2$	1600-1800	Sol	Group freq	Josien	JCP	21 (1955)	331
2-Phenyl-1,4-naphthoquinone							
1-Acetoxyanthraquinone	1679 2-15 μ	Sol	Group freq	Flett Bloom	JCS	- (1948)	1441
$C_{16}H_{10}O_4$	1679	Sol	Group freq	Flett	JCS	- (1948)	1441
2-Acetoxyanthraquinone							
1-Phenylazo-2-naphthol-d ₁	600-1700	S	Assign, Struct	Hadzi	JCS	- (1956)	2143
$C_{16}H_{11}DN_2O$							
2-Phenylazo-1-naphthol-d ₁	600-1700	S	Assign, Struct	Hadzi	JCS	- (1956)	2143
$C_{16}H_{11}DN_2O$							
4-Phenylazo-1-naphthol-d ₁	600-1700	S	Assign, Struct	Hadzi	JCS	- (1956)	2143
$C_{16}H_{11}BrO_2$	6.07-14.6 μ	S	Table, Group freq	Kuhn	JACS	72 (1950)	5058
cis-Bromodibenzoyl-ethylene							
$C_{16}H_{11}BrO_2$	6.02-14.30 μ	S	Table, Group freq	Kuhn	JACS	72 (1950)	5058
trans-Bromodibenzoyl-ethylene							
$C_{16}H_{11}NO$	-	-	Spec	Bergmann	BSCF	- (1959)	634
2-Phenyl-3-cyanoindone							
$C_{16}H_{11}NO_2$	3300-3400	Sol	Freq, H bond	Badger	JCS	- (1958)	3437
5-Benzoyl-8-hydroxyquinoline							
$C_{16}H_{11}NO_2S$	-	-	Ident	Parham	JACS	77 (1955)	68
2-Nitro-3,5-diphenylthiophene							
$C_{16}H_{11}NO_3$	1645-1705	-	Group freq	Flett	JCS	- (1948)	1441
1-Acetamidocanthraquinone							

$C_{16}H_{11}NO_3$		S	Ident	Cook	JCS	- (1954)	4176
4,5-Dihydro-9,10-methylenedioxy-7-oxo-7H-dibenzo [f,hi] pyrrocoline							
$C_{16}H_{11}NO_3$	1,4-Diphenyl-2,3,5-pyrrolidine trione	S	Spec	Skinner	JACS	72 (1950)	5569
$C_{16}H_{11}NO_3$	4,4-Diphenyl-2,3,5-pyrrolidine trione	S	Spec	Skinner	JACS	72 (1950)	5569
$C_{16}H_{11}NO_3$	1-(3',4'-Methylenedioxybenzoyl)indole	Sol	Group freq	Briggs	AC	29 (1957)	904
$C_{16}H_{11}NO_3S$	Naphthoquinone monobenzenesulfonimide	Sol	Freq	Tsou	JACS	77 (1955)	4613
$C_{16}H_{11}NO_4$	N-(4-Acetoxy-1-naphthyl)maleimide	Sol	Freq	Tsou	JACS	77 (1955)	4613
$C_{16}H_{11}NO_4S$	1,2-Naphthoquinone-1-oxime benzene-sulfonic ester	-	Group freq	Curry	JACS	75 (1953)	5740
$C_{16}H_{11}NO_4S$	1,2-Naphthoquinone-2-oxime benzene-sulfonic ester	-	Group freq	Curry	JACS	75 (1953)	5740
$C_{16}H_{11}NO_6$	α -Carboxy- β -(o-nitrostyryl) tropolone	S	Ident, Group & Band freq	Tarbell	JACS	76 (1954)	2470
$C_{16}H_{11}N_2O_3$	Para red	S, Sol	Spec, Table, Anal	Kendall	AC	25 (1953)	382
$C_{16}H_{12}$	1,2,5,6-Dibenzocyclooctatetraene	Sol	Spec	Cope	JACS	73 (1951)	1668
$C_{16}H_{12}$	α -Phenyl naphthalene	Sol	Spec	Cannon	SA	4 (1951)	373

$C_{16}H_{12}ClNO_2$	3,5-Diphenyl-5-chloromethyl-2-isooxazol-4-one	-	-	Struct, I	JOC	19 (1954)	533
$C_{16}H_{12}ClNO_3$	2-(4-chlorobenzoyl)-1-nitro-3-phenylcyclopropane	2-16 μ 3-11 μ	S S	Spec, Struct Ident	JOC JOC	22 (1957) 22 (1957)	1291 1291
$C_{16}H_{12}ClNO_3$	N,N-Dibenzoylglycyl chloride	2-8 μ	Sol	Spec, Group freq	JACS	74 (1952)	4555
$C_{16}H_{12}INO_4$	p-Phthalimidomethyl-phenyl iodomethyl sulfone	-	S	Substitution effect	CPBT	6 (1958)	412
$C_{16}H_{12}N_2$	1-Azulenazobenzene	-	-	Spec	JACS	75 (1953)	4980
$C_{16}H_{12}N_2$	3,5-Diphenylpyridazine	-	Sol	Ident	JOC	19 (1954)	515
$C_{16}H_{12}N_2$	1-Methyl- ψ -indolo (3:2-3:4)quinoline	-	-	Band freq	JCS	- (1955)	381
$C_{16}H_{12}N_2HCl$	1-Methyl- ψ -indolo (3:2-3:4)quinoline hydrochloride	-	-	Band freq	JCS	- (1955)	381
$C_{16}H_{12}N_2$	Phenylazo- α -naphthalene	-	S	Freq	AJC	10 (1957)	26
$C_{16}H_{12}N_2$	Phenylazo- β -naphthalene	600-1700	S	Freq	AJC	10 (1957)	26
$C_{16}H_{12}N_2O$	1-Phenylazo-2-naphthol	600-1800 600-1700	S S	Spec, Assign Assign, Struct	AJC JCS	6 (1953) - (1956)	341 2143
$C_{16}H_{12}N_2O$	2-Phenylazo-1-naphthol	600-1700	S	Assign, Struct, Spec	JCS	- (1956)	2143
$C_{16}H_{12}N_2O$	4-Phenylazo-1-naphthol	600-1700	S	Assign, Struct, Spec	JCS	- (1956)	2143

$C_{16}H_{12}N_2O_2$	2,4-Diphenoxy-pyrimidine	2-25 μ	S	Struct, Group freq	Short	JCS - (1952)	168
$C_{16}H_{12}N_2O_2$	3-Phenylimino-4-phenylpyrrolidine-2,5-dione	2-16 μ	-	Spec, Struct, Group freq	Skinner	JACS 75 (1953)	977
$C_{16}H_{12}N_2O_2S_2$	Sulfisatyde	-	S	Band & Group freq	Bergmann	JACS 77 (1955)	1549
$C_{16}H_{12}N_2O_4$	Isatyde	-	S	Group freq	Bergmann	JACS 77 (1955)	1549
$C_{16}H_{12}N_2O_4$	1-(4-Nitrophenyl)-5-phenyl-2,3-pyrrolidinedione	2-16 μ	Sol	Spec, Group freq	Vaughan	JOC 18 (1953)	382
$C_{16}H_{12}N_2O_4$	5-(4-Nitrophenyl)-1-phenyl-2,3-pyrrolidinedione	2-16 μ	Sol	Spec, Group freq	Vaughan	JOC 18 (1953)	382
$C_{16}H_{12}N_2O_5$	1-(3',4'-Methylenedioxy-6-nitrobenzoyl)-2,3-dihydroindole	700-1500	Sol	Group freq	Briggs	AC 29 (1957)	904
$C_{16}H_{12}N_2O_6$	O-Acetylpolystictin	670-3600	S	Spec, Group freq, Struct	Cavill	JCS - (1953)	525
$C_{16}H_{12}N_2O_4$	1-(2,4-Dinitrophenyl)-5-methyl-3-phenylpyrazole	-	S	Group Study	Henbest	JCS - (1952)	4536
$C_{16}H_{12}N_2O_4$	1-Phenylbut-3-yn-1-one-2,4-dinitrophenylhydrazone	-	S	Group freq	Henbest	JCS - (1952)	4536
$C_{16}H_{12}N_2O_8$	1,2-Cyclobutanedione 2,4-dinitrophenylsazone	-	S	Freq	Ramirez	JACS 76 (1954)	491
$C_{16}H_{12}N_2O_8$	Maleic dialdehyde 2,4-dinitrophenylhydrazone	2-16 μ	S	Spec	Schepartz	JAOAC 26 (1950)	367

$C_{16}H_{12}O$	Methyl 9-phenanthryl ketone	670-3500	Sol, S	Spec, Table, Band freq	Hunsberger	JACS	74 (1952)	4839
$C_{16}H_{12}O_2$	cis-Dibenzoyl-ethylene	6.06-14.5 μ	S	Table, Group freq	Kuhn	JACS	72 (1950)	5058
$C_{16}H_{12}O_2$	trans-Dibenzoyl-ethylene	6.06-14.5 μ	S	Table, Group freq	Kuhn	JACS	72 (1950)	5058
$C_{16}H_{12}O_2$	9,10-Dihydrophenanthrene [9,10,3,2] cyclopropane-1-carboxylic acid	-	S	Freq	Reid	JCS	- (1955)	1193
$C_{16}H_{12}O_2$	Methyl 9-anthroate	-	-	Band freq	Bartlett Greene	JACS JACS	76 (1954) 77 (1955)	1088 3852
$C_{16}H_{12}O_2$	Methyl 10-hydroxy-9-phenanthryl ketone	670-3500	Sol, S	Spec, Table, Band freq	Hunsberger	JACS	74 (1952)	4839
$C_{16}H_{12}O_2$	Methyl 9-phenanthrenecarboxylate	670-3500	Sol, S	Spec, Table, Band freq	Hunsberger	JACS	74 (1952)	4839
$C_{16}H_{12}O_3$	2-Carbethoxy-fluorenone	1600-1800	Sol	Group freq	Josien	JCP	21 (1953)	331
$C_{16}H_{12}O_3$	2,3-Dimethyl-5-hydroxyanthraquinone	-	-	Spec	Inhoffen	CCA	29 (1957)	329
$C_{16}H_{12}O_3$	3'-Methoxyflavone	-	Sol	Group freq	Shaw	JCS	- (1955)	655
$C_{16}H_{12}O_3$	4'-Methoxyflavone	-	Sol	Group freq	Shaw	JCS	- (1955)	655
$C_{16}H_{12}O_3$	7-Methoxyflavone	-	Sol	Group freq	Shaw	JCS	- (1955)	655
$C_{16}H_{12}O_3$	Methyl 10-hydroxy-9-phenanthrene-carboxylate	670-3500	Sol, S	Spec, Table, Band Freq	Hunsberger	JACS	74 (1952)	4839

$C_{16}H_{12}O_3$	1-Methoxy-2-methyl-anthraquinone	2-15 μ	S	Freq, Assign	Bloom	JCS - (1959)	178
$C_{16}H_{12}O_3$	Methyl 1-methyl-fluorenone-7-carboxylate	-	Sol, S	Group freq	Milholland	JCS - (1954)	4676
$C_{16}H_{12}O_3$	α -Phenyl- β -benzoyl- β -propiolactone	-	Sol	Spec, Band freq	Bartlett	JACS 73 (1951)	4275
$C_{16}H_{12}O_4$	Benzil-o-carboxylic acid, normal methyl ester	-	S	Group freq, Taut	Grove	JCS - (1951)	877
$C_{16}H_{12}O_4$	α -Carboxy- β -styryl-tropolone	-	S	Ident, Group & Band freq, Struct	Tarbell	JACS 76 (1954)	2470
$C_{16}H_{12}O_4$	Di-m-cresotide	1700-1800	S, Sol	Group freq	Short	JCS - (1952)	206
$C_{16}H_{12}O_4$	Di-o-cresotide	1700-1800	S, Sol	Group freq	Short	JCS - (1952)	206
$C_{16}H_{12}O_4$	Di-p-cresotide	1700-1800	S, Sol	Group freq	Short	JCS - (1952)	206
$C_{16}H_{12}O_4$	1,2-Dimethoxy-anthraquinone	-	Sol	Freq	Wiles	JCS - (1956)	4811
$C_{16}H_{12}O_4$	1,3-Dimethoxy-anthraquinone	-	Sol	Freq	Wiles	JCS - (1956)	4811
$C_{16}H_{12}O_4$	1,4-Dimethoxy-anthraquinone	1675	Sol	Freq Struct	Flett Wiles	JCS - (1948) JCS - (1956)	1441 4811
$C_{16}H_{12}O_4$	1,5-Dimethoxy-anthraquinone	-	-	Struct	Wiles	JCS - (1956)	484
$C_{16}H_{12}O_4$	1,8-Dimethoxy-anthraquinone	-	Sol	Freq	Wiles	JCS - (1956)	4811
$C_{16}H_{12}O_4$	2,3-Dimethoxy-anthraquinone	-	Sol	Freq	Wiles	JCS - (1956)	4811

Chemical Name	Formula	State	Wavelength	Frequency	Assignment	Year	Page
2,6-Dimethoxyanthraquinone	$C_{16}H_{12}O_4$	Sol	-	Group freq	Wiles	(1956)	4811
2,7-Dimethoxyanthraquinone	$C_{16}H_{12}O_4$	Sol	2-15 μ	Group freq	Wiles	(1956)	4811
Diphenyl fumarate	$C_{16}H_{12}O_4$	Sol	-	Group & Band freq, I	Bloom	(1959)	178
3-Hydroxy-3'-methoxyflavone	$C_{16}H_{12}O_4$	Sol	-	Group freq	Goodwin	(1953)	4273
3-Hydroxy-7-methoxyflavone	$C_{16}H_{12}O_4$	Sol	-	Group freq	Shaw	(1955)	655
5-Hydroxy-3'-methoxyflavone	$C_{16}H_{12}O_4$	Sol	-	Group freq	Shaw	(1955)	655
5-Hydroxy-4'-methoxyflavone	$C_{16}H_{12}O_4$	Sol	-	Group freq	Shaw	(1955)	655
5-Hydroxy-7-methoxyflavone	$C_{16}H_{12}O_4$	Sol	-	Group freq	Shaw	(1955)	655
1-Methoxy-2-methyl-3-hydroxyanthraquinone	$C_{16}H_{12}O_4$	S	2-15 μ	Group freq	Bloom	(1959)	178
Dimethylanthraquinone-1,4-disulfonate	$C_{16}H_{12}O_4S_2$	Sol	5-8 μ	Struct	Bruice	(1959)	3416
1,8-Dihydroxy-3-methoxy-6-methylanthraquinone	$C_{16}H_{12}O_5$	S	2-15 μ	Group freq	Bloom	(1959)	178
1-Hydroxy-3-methoxy-2-hydroxymethylanthraquinone	$C_{16}H_{12}O_5$	S	2-15 μ	Group freq	Briggs	(1953)	3068
				Group freq	Bloom	(1959)	178

$C_{16}H_{12}O_6$	1,5-Dihydroxy-3,7-dimethoxyanthraquinone	2-15 μ	S	Freq assign	Bloom	JCS - (1959)	178
$C_{16}H_{12}O_6$	1,3,5-Trihydroxy-2-methoxy-6-methylanthraquinone	2-15 μ	S	Freq assign	Bloom	JCS - (1959)	178
$C_{16}H_{12}O_6$	1,4,5-Trihydroxy-2-methyl-7-methoxyanthraquinone	2-15 μ	S	Freq assign	Bloom	JCS - (1959)	178
$C_{16}H_{12}O_7$	Diphenyl fumarate ozonide	-	Sol	Group & Band freq	Goodwin	JACS 75 (1953)	4273
$C_{16}H_{12}O_7$	Isorhamnetin	-	L	Freq	Inglett	JOC 23 (1958)	93
$C_{16}H_{12}S$	2,4-Diphenyl thiophene	-	-	Ident	Parham	JACS 76 (1954)	4960
$C_{16}H_{13}BrN_4O_4$	2-Bromo-1-tertralone syn-2,4-dinitrophenylhydrazone	-	Sol	Band & Group freq	Ramirez	JACS 75 (1953)	6026
$C_{16}H_{13}BrO$	Bromodipnone	2-16 μ	Sol	Spec	Stevens	JOC 19 (1954)	522
$C_{16}H_{13}BrO_2$	α -Bromodiphenacyl	2-16 μ 2-15 μ 2-16 μ	Sol Sol Sol	Spec Spec, Struct Spec, Struct	Berson Wasserman Stevens	JACS 74 (1952) JACS 75 (1953) JOC 19 (1954)	5175 96 522
$C_{16}H_{13}BrO_2$	β -Bromodiphenacyl	2-16 μ 2-15 μ 2-16 μ	Sol Sol Sol	Spec, Group freq Spec, Struct Spec, Struct	Berson Wasserman Stevens	JACS 74 (1952) JACS 75 (1953) JOC 19 (1954)	96 96 522
$C_{16}H_{13}ClO$	Chlorodipnone	2-16 μ	Sol	Spec	Stevens	JOC 19 (1954)	522
$C_{16}H_{13}ClO_2$	α -Chlorodiphenacyl	2-16 μ	Sol	Spec, Struct	Stevens	JOC 19 (1954)	522

$C_{16}H_{13}ClO_2$	β -Chlorodiphenacyl	2-16 μ	Sol	Spec, Struct	Stevens	JOC	19 (1954)	522
$C_{16}H_{13}IO$	Iododynone	2-16 μ	Sol	Spec	Stevens	JOC	19 (1954)	522
$C_{16}H_{13}IO_2$	α -Iododiphenacyl	2-16 μ	Sol	Spec, I, Struct	Stevens	JOC	19 (1954)	522
$C_{16}H_{13}IO_2$	β -Iododiphenacyl	2-16 μ	Sol	Spec, I, Struct	Stevens	JOC	19 (1954)	522
$C_{16}H_{13}N$	2,4-Diphenylpyrrole	-	Sol	Ident	Wasserman	JOC	19 (1954)	515
$C_{16}H_{13}N$	N-Phenyl- α -naphthyl-amine	-	Sol	Band freq, I	Russel	JCS	- (1954)	483
$C_{16}H_{13}N$	N-Phenyl- β -naphthyl-amine	-	Sol	Band freq, I	Russel	JCS	- (1954)	483
$C_{16}H_{13}NO$	β -(<i>o</i> -Anisyl)cinnam- onitrile	-	Sol	Group freq	Elderfield	JACS	76 (1954)	3439
$C_{16}H_{13}NO$	α, β -Diphenyl- β - methoxyacrylonitrile	-	Sol	Group freq	Russel	JACS	76 (1954)	5714
$C_{16}H_{13}NO$	1-Methyl-2-phenyl- 4-quinolone	1450-4000	S	Spec, Freq Spec	Price Witkop	AJC JACS	12 (1952) 74 (1952)	589 3855
$C_{16}H_{13}NO$	α -Phenyl-4-methoxy- cinnamonnitrile	-	-	Struct	Rorig	JACS	75 (1953)	5381
$C_{16}H_{13}NO_2$	1-Acetamidoan- thronone	1637-3130	S	Group freq	Flett	JCS	- (1948)	1441
$C_{16}H_{13}NO_2$	4-Acetamido- anthrone	1652-3310	S	Group freq	Flett	JCS	- (1948)	1441
$C_{16}H_{13}NO_2$	1-Dimethylamino- anthraquinone	1650	-	Freq	Flett	JCS	- (1948)	1441
$C_{16}H_{13}NO_2$	2-Dimethylamino- anthraquinone	1650	-	Freq	Flett	JCS	- (1948)	1441

$C_{16}H_{13}NO_2$	1,5-Diphenyl-2,3-pyrrolidinedione	2-16 μ	Sol	Spec, Group freq Group freq	Vaughan Vaughan	JOC JOC	18 (1953) 20 (1955)	382 143
$C_{16}H_{13}NO_2$	3-(2'-Fluorenyl)-2-oxazolidine	-	-	Group freq	Sawicki	JACS	75 (1953)	4596
$C_{16}H_{13}NO_2$	7-Hydroxy-1-methyl-2-phenyl-4-quinolone	1450-4000	S	Spec, Freq	Price	AJC	12 (1959)	589
$C_{16}H_{13}NO_2$	7-Methoxy-2-phenyl-4-quinolone	1450-4000	S	Spec, Freq	Price	AJC	12 (1959)	589
$C_{16}H_{13}NO_2$	7-Methoxy-3-phenyl-4-quinolone	1450-4000	S	Spec, Freq	Price	AJC	12 (1959)	589
$C_{16}H_{13}NO_3$	2-Benzoyl-1-nitro-1-phenylcyclopropane	2-8	S	Spec, Struct	Allen	JOC	22 (1957)	1291
$C_{16}H_{13}NO_3$	1-(3',4'-methylene-dioxybenzoyl)-2,3-dihydroindole	700-3000	Sol	Group freq	Briggs	AC	29 (1957)	904
$C_{16}H_{13}NO_3S$	5,8-Dihydro-1,4-naphthoquinone monobenzene sulfonimide	-	-	Group freq	Adams	JACS	74 (1952)	2605
$C_{16}H_{13}NO_4$	α -Carboxy- β -(α -aminostyryl) tropolone	-	S	Ident, Group & Band	Tarbell	JACS	76 (1954)	2470
$C_{16}H_{13}NO_4$	N,N-Dibenzoylglycine	2-8 μ	Sol	Spec, Group freq	Sheehan	JACS	74 (1952)	4555
$C_{16}H_{13}NO_4S$	p-Phthalimidomethyl phenyl methyl	-	S	Substitution effect	Momose	CPPT	6 (1958)	412

C ₁₆ H ₁₃ N ₃ O ₅	Actinomycinol B	2-15.5μ	S	Spec, Group freq	Johnson	JCS	- (1952)	2672
C ₁₆ H ₁₃ N ₃ O	N-Acetyl-3,5-diphenyl-1,2,4-triazole	-	-	Group freq	Potts	JCS	- (1954)	3461
C ₁₆ H ₁₃ N ₃ O	4-Benzylidene-3-amino-1-phenyl-5-pyrazolone	400-4000	-	Freq	Gagnon	CJC	37 (1959)	110
C ₁₆ H ₁₃ N ₃ OS	5-Benzylidene-4-oxo-2-phenylhydrazono-thiazolidine	-	-	Ident	Mackie	JCS	- (1954)	3919
C ₁₆ H ₁₃ N ₃ O ₄ S	2-Thio-3-o-nitrophenyl-5-p-hydroxybenzylhydantoin	600-4000	S	Spec, Ident	Epp	AC	29 (1957)	1283
C ₁₆ H ₁₃ N ₃ O ₃	1-Phenyl-3-methyl-4-m-nitrophenylazo-5-pyrazolone	-	Sol	Spec	Toda	NKZ	80 (1959)	402
C ₁₆ H ₁₃ N ₃ O ₅	1-Phenyl-3-methyl-4-p-nitrophenylazo-5-pyrazolone	-	Sol	Spec	Toda	NKZ	80 (1959)	402
C ₁₆ H ₁₃ O ₆	Peonidine	1000-1800	S	Spec	Gayon	BSCF	- (1960)	934
C ₁₆ H ₁₄	9-Allylfluorene	700-1400	Sol	Spec	Scherf	CJC	38 (1960)	697
C ₁₆ H ₁₄	Bicyclooctatetraenyl	-	-	Ident	Cope	JACS	75 (1953)	3208
C ₁₆ H ₁₄	1,4-Dimethylanthracene	3.0-14.0μ	Sol, S	Spec, Table	Mosby	JOC	18 (1953)	964
C ₁₆ H ₁₄	2,3-Dimethylanthracene	670-3150	S	Spec, Band freq	Orr	JCS	- (1950)	218
C ₁₆ H ₁₄	2,6-+2,7-Dimethylanthracenes	650-2040	S	Spec	Cannon	SA	4 (1951)	373

$C_{16}H_{14}$	9, 10-Dimethyl-anthracene	650-2040	Sol	Spec	Cannon	SA	4 (1951)	373
$C_{16}H_{14}$	meso-Dimethyl-anthracene	-	-	Spec	Buu - hoi	BSCF	- (1958)	1404
$C_{16}H_{14}$	1, 7-Dimethyl-phenanthrene	2-15 μ	Sol	Ident Spec, Ident	Wiesner Mosettig	JACS JOC	76 (1954) 20 (1955)	6068 884
$C_{16}H_{14}$	1, 9-Dimethyl-phenanthrene	650-2040	Sol	Spec	Cannon	SA	4 (1951)	373
$C_{16}H_{14}$	4, 5-Dimethyl-phenanthrene	5-14.5 μ	S	Spec, Table	Mosby	JOC	19 (1954)	294
$C_{16}H_{14}$	9, 10-Dimethyl-phenanthrene	7.3-14 μ 2-15 μ	S	Spec, Table Struct, Ident	Mosby Cagniant	JOC BSCF	19 (1954) - (1957)	294 1403
$C_{16}H_{14}$	10, 10-Dimethyl-dibenzofulvene	1250-4000	Sol	Spec	Wood	AC	30 (1958)	1339
$C_{16}H_{14}$	Diphenyl butadiene	640-2000	S	Spec	Cannon	SA	4 (1951)	373
$C_{16}H_{14}$	9-Ethylphenanthrene	2-15 μ	-	Struct, Ident	Cagniant	BSCF	- (1957)	1403
$C_{16}H_{14}ClNO_2$	α -Chlorodiphenacyl oxime	-	-	Struct	Stevens	JOC	19 (1954)	533
$C_{16}H_{14}ClNO_2$	β -Chloroethyl N-2-fluorenylcarbamate	-	-	Group freq	Sawacki	JACS	75 (1953)	4596
$C_{16}H_{14}ClNO_2$	cis-3, 5-Diphenyl-5-chloromethyl-4-hydroxy-2-isoxazoline	-	-	Ident	Stevens	JOC	19 (1954)	533
$C_{16}H_{14}ClNO_2$	trans-3, 5-Diphenyl-5-chloromethyl-4-hydroxy-2-isoxazo-	-	-	Ident	Stevens	JOC	19 (1954)	533

$C_{16}H_{14}Cl_2O_4$			Band freq	Burnell	JCS	(1954)	3636
	Dimethyl 2,3-dichloro-5-phenylcyclohexa-1,3-diene-1,4-dicarboxylate						
$C_{16}H_{14}NO$	Glycosin	2-12 μ	Ident Spec, Group freq, Struct	Chatterjee Chatterjee	JACS JACS	75 (1953) 76 (1954)	4365 2459
$C_{16}H_{14}NO$	10-Keto-1,6-diazaspiro[5.3.0]deca-3,8-diene	-	Group freq, Struct	Hatt	JCS	- (1952)	199
$C_{16}H_{14}NOS$	2-Benzylamino-5-phenyl-4-(5)-thiazolone	650-4000	Spec	Taylor	JACS	76 (1954)	1866
$C_{16}H_{14}NOS$	5-Benzyl-3-phenyl-2-thiohydantoin	2.5-15 μ	Spec, Ident	Ramachandran	AC	27 (1955)	1734
$C_{16}H_{14}NOS$	4-o-Mercaptophenyl-3-methyl-1-phenylpyrazolone	-	Group study	Glauert	JCS	- (1952)	240
$C_{16}H_{14}NOS$	α -Thiocyano- α -Phenyl-N-benzylacetamide	-	Group freq	Taylor	JACS	76 (1954)	1866
$C_{16}H_{14}NO_2$	1-Anilino-5-Phenyl-2,3-pyrrolidinedione	-	Group freq	Vaughan	JOC	20 (1955)	143
$C_{16}H_{14}NO_2$	1,4-bis-Methylaminoanthraquinone	3240	Group freq	Flett	JCS	- (1948)	1441
$C_{16}H_{14}NO_2$	1-Phenyl-4-carboxanilido-2-azetidione	2-11 μ	Spec	Sheehan	JACS	73 (1951)	1761

$C_{16}H_{14}N_2O_2$	1-Phenyl-3,4-epoxybutane-1,2-dione-2-phenylhydrazone	-	Sol	Band freq	Russel	JACS	75 (1953)	5315
$C_{16}H_{14}N_2O_2$	3-(1-Phenyl-2-nitroethyl) indole	-	S, Sol	Group freq	Noland	JACS	77 (1955)	456
$C_{16}H_{14}N_2O_2S$	5-p-Hydroxybenzyl-3-phenyl-2-thiohydantoin	2.5-15 μ	S	Spec, Ident	Ramachandran	AC	27 (1955)	1734
$C_{16}H_{14}N_2O_3$	1-(2'-amino-4',5'-methylenedioxybenzoyl)-2,3-dihydroindole	700-3500	Sol	Group freq	Briggs	AC	29 (1957)	904
$C_{16}H_{14}N_2O_3S$	5-(3,4-Dihydroxybenzyl)-3-phenyl-2-thiohydantoin	2.5-15 μ	S	Spec, Ident	Ramachandran	AC	27 (1955)	1734
$C_{16}H_{14}N_2O_4$	Benzoyl cyanide dimer diamide	750-4000	-	Spec, Struct, Anal	Marvel	JACS	71 (1949)	34
$C_{16}H_{14}N_2O_4$	L-erythro-2-Phenyl-4-hydroxymethyl-5-p-nitrophenyl- Δ^2 -oxazoline	-	-	Group freq	Moersch	JACS	76 (1954)	1703
$C_{16}H_{14}N_2O_5$	p,p'-Diacetoxyazoxybenzene	-	S	Ident	Leonard	JOC	17 (1952)	1071
$C_{16}H_{14}N_2O_5$	5-Methyl-3-(phenyl-p-azophenyl)-2-thiohydantoin	600-4000	S	Spec, Ident	Epp	AC	29 (1957)	1283
$C_{16}H_{14}N_2O_4$	4-Phenyl-3-buten-2-one-2,4-dinitrophenylhydrazone	2-15 μ	S	Band spec, Ident	Jones	AC	28 (1956)	191

Chemical Formula	Compound Name	Sol	Band & Group freq	Ramirez	JACS	75 (1953)	6026
$C_{16}H_{14}N_2O_4$	Phenyl propenyl ketone 2,4-dinitrophenylhydrazone	-	-	Ramirez	JACS	75 (1953)	6026
$C_{16}H_{14}N_2O_4$	1-Tetralone syn-2,4-dinitrophenylhydrazone	Sol	Band & Group freq	Ramirez	JACS	75 (1953)	6026
$C_{16}H_{14}N_2O_5$	3-(2,4-Dinitrophenylhydrazino)-1-phenylbut-2-en-1-one	S	Group freq	Henbest	JCS	- (1952)	4536
$C_{16}H_{14}N_2O_5$	2-Methoxy-1-indanone syn-2,4-dinitrophenylhydrazone	Sol	Band & Group freq	Ramirez	JACS	75 (1953)	6026
$C_{16}H_{14}N_2O_6$	α -Acetoxyacetophenone syn-2,4-dinitrophenylhydrazone	Sol	Band & Group freq	Ramirez	JACS	75 (1953)	6026
$C_{16}H_{14}N_2O_7$	1,3-Dimethylindole picrate	-	Spec	Snyder	JACS	70 (1948)	1703
$C_{16}H_{14}N_2O_6$	Fumaric dialdehyde bis-p-nitrophenylhydrazone	S	Spec	Rafford	JACS	74 (1952)	3014
$C_{16}H_{14}N_2O_8$	Biacetyl di-2,4-dinitrophenylhydrazone	S	Spec, Table	Ross	AC	25 (1953)	1288
$C_{16}H_{14}O$	4-Acetylstilbene	S	Spec, Band freq, Table	Thompson	JCS	- (1950)	214
$C_{16}H_{14}O$	Dypnone	- Sol	Ident Spec	Elderfield Stevens	JACS JOC	76 (1954) 19 (1954)	5437 522
$C_{16}H_{14}O$	p-Phenylcrotonophenone	S, Sol	Group freq, I	Cromwell	JACS	75 (1953)	6252

$C_{16}H_{14}O$	2-Methyl 3-phenyl- indone	-	-	Spec	Bergmann	BSCF - (1959)	634
$C_{16}H_{14}O$	3-Methyl-2-phenyl- indone	-	-	Spec	Bergmann	BSCF - (1959)	634
$C_{16}H_{14}OS_2$	Benzil monooxethylene- thioetal	-	Sol	Band freq	Fieser	JACS 76 (1954)	1945
$C_{16}H_{14}O_2$	1,2,5,6-Dibenz-1,5- cyclooctadiene-3- ol-7-one hemiketal	2-16 μ	S	Spec	Cope	JACS 73 (1951)	1668
$C_{16}H_{14}O_2$	1,1-Dibenzoylthane	-	-	Group freq	Dreiding	JACS 75 (1953)	3723
$C_{16}H_{14}O_2$	1,2-Dibenzoylthane	650-1740	Sol	Freq shift	Bellamy	JCS - (1955)	4221
$C_{16}H_{14}O_2$	cis-1,3-Diphenyl- 2,3-epoxybutanone-1	2-15 μ	Sol	Spec, Struct	Wasserman	JACS 75 (1953)	96
$C_{16}H_{14}O_2$	trans-1,3-Diphenyl- 2,3-epoxybutanone-1	2-15 μ	Sol	Spec, Struct Ident	Wasserman Wasserman	JACS 75 (1953) JACS 77 (1955)	96 590
$C_{16}H_{14}O_2$	1,2-Diphenyl-2-methyl- 1,3-propanedione	-	Sol	Band freq	House	JACS 76 (1954)	1235
$C_{16}H_{14}O_2$	3-Methoxymethylene- 4-keto-1,2,3,4- tetrahydrophenan- threne	-	Sol	Band freq	Djerassi	JACS 76 (1954)	1741
$C_{16}H_{14}O_2$	3-Methyl-3-formyl- 4-keto-1,2,3,4- tetrahydrophenan- threne	-	-	Band freq	Djerassi	JACS 76 (1954)	1741
$C_{16}H_{14}OS$	9-Fluorenyl allyl sulfone	1100-1400	Sol	Spec, Freq	Bavin	SA 16 (1960)	1312
$C_{16}H_{14}O_2S_2$	Dibenzylidithio-	2.5-16 μ	Sol	Struct	Nyquist	SA 15 (1959)	514

$C_{16}H_{14}O_4$	Di-(p-toluoyl) peroxide	-	Sol	Table, Group freq	Davison	JCS	- (1951)	2456
$C_{16}H_{14}O_4$	Isoumaranone	-	-	Ident Band freq	Wasserman Wasserman	JACS JACS	75 (1953) 77 (1955)	2056 973
$C_{16}H_{14}O_4$	Phthalan peroxide	2-16 μ	S	Spec	Entel	JACS	74 (1952)	441
$C_{16}H_{14}O_5$	1-Acetoxy-8-hydroxy-1,4,11,12-tetrahydroanthraquinone	-	-	Spec	Inhoffenn	CCA	29 (1957)	329
$C_{16}H_{14}O_5$	1-Acetoxy-8-hydroxy-5,8,11,12-tetrahydroanthraquinone	-	-	Spec	Inhoffenn	CCA	29 (1957)	329
$C_{16}H_{14}O_5$	4-Acetoxy-5,10-dihydroxy-1,4,11,12-tetrahydroanthrone	-	-	Spec	Inhoffenn	CCA	29 (1957)	329
$C_{16}H_{14}O_5$	4-Acetoxy-8,10-dihydroxy-1,4,11,12-tetrahydroanthrone	-	-	Spec	Inhoffenn	CCA	29 (1957)	329
$C_{16}H_{14}O_6$	Di-(p-methoxybenzoyl) peroxide	-	Sol	Table, Group freq	Davison	JCS	- (1951)	2456
$C_{16}H_{14}O_6$	2-Naphthyl- β -D-glucofururonolactone	2-14 μ	Sol	Spec, Band freq, Assign	Tsou	JACS	74 (1952)	5605
$C_{16}H_{15}DO_2$	erythro-2-Deutero-1,2-diphenylethyl acetate	1900-2600	L	Spec	Curtin	JACS	75 (1953)	6011
$C_{16}H_{15}DO_2$	threo-2-Deutero-1,2-diphenylethyl acetate	1900-2600	L	Spec	Curtin	JACS	75 (1953)	6011

$C_{16}H_{15}BrN^O_4$	α -Bromobutyrophenone syn-2,4-dinitrophenylhydrazone	2-16 μ	Sol Sol	Band freq, Group freq Spec, Symmetry	Ramirez Ramirez	JACS JACS	75 (1953) 76 (1954)	6026 1037
$C_{16}H_{15}BrN^O_4$	α -Bromobutyrophenone anti-2,4-dinitrophenylhydrazone	2-16 μ	Sol Sol	Band freq, Group freq Spec, Symmetry	Ramirez Ramirez	JACS JACS	75 (1953) 76 (1954)	6020 1037
$C_{16}H_{15}Cl^O_5$	7-Chloro-4,6-dimethoxy-6'-methylgris-2'-en-3,4-dione	-	S S	Ident Group freq	Mulholland Mulholland	JCS JCS	- (1952) - (1952)	3987 3984
$C_{16}H_{15}Cl^O_5$	7-Chloro-4,6-dimethoxy-6'-methylgris-3'-en-3,2-dione	-	S S	Ident Group freq	Mulholland Mulholland	JCS JCS	- (1952) - (1952)	3987 3987
$C_{16}H_{15}Cl^O_6$	Griseofulvic acid	700-1900	-	Spec Struct Spec	Grove Grove Duncanson	JCS JCS JCS	- (1952) - (1952) - (1957)	3949 3977 3555
$C_{16}H_{15}F^O_3$	Di-p-tolyl-(trifluoromethyl)carbinol	-	-	Group freq	Kaluszyner	JACS	77 (1955)	4164
$C_{16}H_{15}F^O_3$	Di-p-methoxyphenyl-(trifluoromethyl)carbinol	-	-	Group freq	Kaluszyner	JACS	77 (1955)	4164
$C_{16}H_{15}NO$	N-Allylbenzaniide	-	-	Group freq, Struct	Lauer	JACS	76 (1954)	3974
$C_{16}H_{15}NO$	trans-2-phenyl-3-p-tolylethyleneimine	2-16 μ	S,Sol	Group freq, Spec	Cromwell	JACS	73 (1951)	1044

$C_{16}H_{15}NO$	N-o-xyllyphthalimidine	-	S	Group freq	Halt	JCS - (1952)	199
$C_{16}H_{15}NO_2$	N-Benzoyl-8-hydroxy-1,2,3,4-tetrahydroquinoline	-	-	Group freq	Ek	JACS 76 (1954)	5579
$C_{16}H_{15}NO_2$	Δ -10,16-Diketoisomorphinone	2.5-10.5 μ	Sol	Spec, Struct	Gates	JACS 72 (1950)	1141
$C_{16}H_{15}NO_2$	N-o-Hydroxymethylbenzylphthalimidine	-	Sol	Group freq	Halt	JCS - (1952)	199
$C_{16}H_{15}NO_2$	N-Phenyl- β -benzoylpropionamide	700-4000	S,Sol	Band assign, Struct, Taut	Cromwell	JACS 80 (1958)	4573
$C_{16}H_{15}NO_2$	2-Phenyl-4-methyl-7-methoxy-3,1,4a-benzoxazine	6-11.7 μ	Sol	Table, I, Group freq, Spec	Patrick	JOC 19 (1954)	1824
$C_{16}H_{15}NO_2 \cdot HCl$	2-Phenyl-4-methyl-7-methoxy-3,1,4a-benzoxazine hydrochloride	6-8 μ	Sol	Spec, Group freq	Patrick	JOC 19 (1954)	1824
$C_{16}H_{15}NO_2$	2-Phenyl-N-piperonylideneethylamine	-	Sol	Group freq	Goulden	JCS - (1953)	997
$C_{16}H_{15}NO_3$	α -Benzoin oxime acetate	6600-7400 7000	Sol	Spec, H bond Absorp. band	Hilbert Wulf	JACS 58 (1936) JCP 6 (1938)	548 702
$C_{16}H_{15}NO_3$	β -Benzoin oxime acetate	6900-7200 700	-	H bond, Spec Absorp. band	Hilbert Wulf	JACS 58 (1936) JCP 6 (1938)	548 702
$C_{16}H_{15}NO_3$	4,9-Diketo-1,2,3,4,9,10,11,12-octahydrophenanthrene cis-10,12-lactam	-	-	Band freq	Ginsburg	JCS - (1953)	1524

$C_{16}H_{15}NO_3$	6700-7200	Sol	Spec, H bond	Blatt	JACS	58 (1936)	1903
anti-Phenyl 2-hydroxy-5-methyl-phenyl ketoxime acetate							
$C_{16}H_{15}NO_3$			Group freq	Adams	JACS	74 (1952)	2605
5,8,5a,8a-Tetrahydro-1,4-naphthoquinone monobenzenesulfonimide							
$C_{16}H_{15}NO_4$	2.83-11.73 μ	Sol	Table, Spec, Group freq	Patrick	JOC	19 (1954)	1824
2-Phenyl-4-methyl-4-hydroperoxy-7-methoxy-3,1,4a-benzoxazine							
$C_{16}H_{15}NO_4$	600-1700	S	Spec, Struct	Braunholtz	JCS	- (1957)	4166
1-Benzenesulphonyl-1,2,3,4-tetrahydro-7-methoxy-4-oxoquinoline							
$C_{16}H_{15}NO_4$							
p-Formylaminomethyl-phenyl benzoylmethyl sulfone							
$C_{16}H_{15}NO_4$							
Anhydro-5-acetamidopyridino-3-benzoylpyridinolium hydroxide							
$C_{16}H_{15}NO_5$							
4-Benzylidene-3-amino-1-phenyl-5-pyrazolin-5-ol	400-4000	-	Freq, Discussion	Gagnon	CJC	37 (1959)	110
$C_{16}H_{15}NO_5$							
1-[2',4'-(diacetamino)phenyl] benzotriazole							
$C_{16}H_{15}NO_5$							
			Band freq, H bond	O'Sullivan	JCS	- (1960)	3653

$C_{16}H_{15}N_3O_3 \cdot H_2O$	3'-Acetamido-4-acetoxy-2,2'-dimethyl-6:7-benzopteridine hydrate	-	Sol	Group freq, Struct	Osdene	JCS - (1955)	2027
$C_{16}H_{16}$	Cyclohexadeca-1,3,9,11-tetraene	3-15 μ	S	Spec	Wolovsky	JACS 81 (1959)	4600
$C_{16}H_{16}$	Cyclooctatetraene dimer (liq mP 14°C)	300-3800	L	Spec, Table	Lord	JACS 76 (1954)	2518
$C_{16}H_{16}$	Cyclooctatetraene dimer (solid mP 43°C)	284-3800	L	Spec, Table, I, Struct	Lord	JACS 76 (1954)	2518
$C_{16}H_{16}$	p,p'-Dimethylene-1,2-diphenylethane	3-12 μ	Sol	Spec	Cram	JACS 73 (1951)	5691
$C_{16}H_{16}$	2,2'-Dimethyl-trans-stilbene	960	Sol	Struct	Orr	SA 8 (1956)	218
$C_{16}H_{16}$	1,3-Diphenyl-1-butene	-	-	Band freq	Mayo	JACS 75 (1953)	6133
$C_{16}H_{16}$	Distyrene oil	1000-2000 800-1950	Sol	Spec	Muller Barnes	IEC 13 (1941) IEC 15 (1943)	667 659
$C_{16}H_{16}$	syn-Hexahydropyrene (3.4.5.8.9.10)	650-2000	Sol	Spec	Cannon	SA 4 (1951)	373
$C_{16}H_{16}$	unsym-Hexahydro-pyrene (1,2,2a,3,4,5)	650-2010	Sol	Spec	Cannon	SA 4 (1951)	373
$C_{16}H_{16}$	1-Methyl-2,3,6,7-dibenz-2,6-cycloheptadiene	2-16 μ	Sol	Spec	Cope	JACS 73 (1951)	1673

C ₁₆ H ₁₆	1-Methyl-3-phenylindan (m.p. 9.50)	2-16 μ	-	Struct, Anal	Corson	JOC	19 (1954)	17
C ₁₆ H ₁₆	1-Methyl-3-phenylindan (m.p. 25.5°)	2-16 μ	-	Struct, Anal	Corson	JOC	19 (1954)	17
C ₁₆ H ₁₆	1-Methyl-3-phenylindan	-	-	Band freq	Mayo	JACS	75 (1953)	6133
C ₁₆ H ₁₆ BrN	3'-Bromo-4'-dimethylaminostilbene	5-15 μ	S	Spec, Band freq, Table	Thompson	JCS	- (1950)	214
C ₁₆ H ₁₆ BrN	4'-Bromo-4-dimethylaminostilbene	5-15 μ	S	Spec, Band freq, Table	Thompson	JCS	- (1950)	214
C ₁₆ H ₁₆ Br ₂ O ₄	1-Bromo-1-[(hydroxyacetoxy-p-bromophenyl)-methyl]cyclohexane-2-carboxylic acid γ-lactone	2-16 μ	Sol	Spec, Iso	Bartlett	JACS	73 (1951)	4275
C ₁₆ H ₁₆ ClN	2-Chloro-4-dimethylaminostilbene	5-15 μ	S	Spec, Band freq, Table	Thompson	JCS	- (1950)	214
C ₁₆ H ₁₆ ClN	2'-Chloro-4-dimethylaminostilbene	5-15 μ	S	Spec, Band freq, Table	Thompson	JCS	- (1950)	214
C ₁₆ H ₁₆ ClN	4'-Chloro-4-dimethylaminostilbene	5-15 μ	S	Spec, Band freq, Table	Thompson	JCS	- (1950)	214
C ₁₆ H ₁₆ ClNO ₂	2-Chloro-3-(2'-diethylaminovinyl)-1,4-naphthaquinone	2200-8000	Sol	Absorption band	Buckley	JCS	- (1957)	4891
C ₁₆ H ₁₆ ClNO ₂ S ₄	4-Carbomethoxy-5,5-dimethyl-2-thiazolidine-α-phenoxy-β-chloroacrylic acid, γ-lactam	2.5-15 μ	Sol	Spec, Band freq	Wasserman	JACS	74 (1952)	4093

$C_{16}H_{16}Cl_2O_3Si_2$	-	L	Band freq, Assign	Frisch	JACS	74 (1952)	4584
bis-(p-Chlorophenyl-vinyl)-disiloxane-diol							
$C_{16}H_{16}F_{14}O_4$	-	L	Group freq	Rappaport	JACS	75 (1953)	2695
bis-2,2,3,3,4,4,4-Heptafluorobutyl suberate							
$C_{16}H_{16}N_2$	-	Sol	Group freq	Noland	JACS	77 (1955)	456
3-(1-Phenyl-2-aminoethyl) indole							
$C_{16}H_{16}N_2$	-	-	Prep. of derivatives	Halt	JOS	- (1952)	199
5,7,12,14-Tetrahydro-6,13-diazanaphthacene							
$C_{16}H_{16}N_2O$	-	S	Group freq, Struct	Halt	JCS	- (1952)	199
N-o-Aminomethyl-benzylphthalimidine							
$C_{16}H_{16}N_2O_2$	-	Sol,L	H bond, Correlation	Reeves	CJC	38 (1960)	1249
N,N'-Disalicylidene-ethylenediamine							
$C_{16}H_{16}N_2O_2$	-	-	Ident	Kornfeld	JACS	76 (1954)	5256
dl-Lysergic acid							
$C_{16}H_{16}N_2O_3$	650-4000	-	Spec	Chatten	AC	31 (1959)	1581
p-Nitrobenzoyl-d-amphetamine							
$C_{16}H_{16}N_2O_3$	650-4000	-	Spec	Chatten	AC	31 (1959)	1581
p-Nitrobenzoyl-dl-amphetamine							
$C_{16}H_{16}N_2O_5$	2-11 μ	Sol	Spec, Band freq, Struct	Sheehan	JACS	73 (1951)	4373
Methyl α -phthalimidoacetamido-seneciolate							
$C_{16}H_{16}N_4$	-	-	Spec	Hufford	JACS	74 (1952)	3014
Fumaric dialdehyde bis-phenylhydrazone							
$C_{16}H_{16}N_4O_5$	600-4000	S	Spec	Epp	AC	29 (1957)	1283
N-(phenyl-p-azophenyl)thiocarbamyl-dl-serine							

$C_{16}H_{16}N_4O_4$	Butyropenone syn-dinitrophenyl-hydrazone	-	Sol	Band freq, Group freq	Ramirez	JACS 75 (1953)	6026
$C_{16}H_{16}N_4O_4$	anti-Bytyropenone-2,4-dinitrophenyl-hydrazone	2-16/ μ	Sol	Spec, Group freq	Ramirez	JACS 76 (1954)	1037
$C_{16}H_{16}N_4O_4$	γ -Cyano- γ -(2'-nitro-4',5'-dimethoxyphenyl) pimelonitrile	-	Sol	Freq	Walker	JACS 77 (1955)	3844
$C_{16}H_{16}N_4O_4$	2,4-Dimethylacetophenone-2,4-dinitrophenylhydrazone	2-15/ μ	S	Band spec, Ident	Jones	AC 28 (1956)	191
$C_{16}H_{16}N_4O_5$	α -Methoxypropionophenone-syn-2,4-dinitrophenyl-hydrazone	- 2-16/ μ	Sol Sol	Band freq Spec	Ramirez Ramirez	JACS 75 (1953) JACS 76 (1954)	6026 1037
$C_{16}H_{16}N_4O_5$	α -Phenyl- α -methoxyacetone anti-2,4-dinitrophenylhydrazone	-	Sol	Band freq, Group freq	Ramirez	JACS 75 (1953)	6026
$C_{16}H_{16}N_4O_5$	α -Phenyl- α -methoxypropionaldehyde anti-2,4-dinitrophenyl-hydrazone	- -	Sol Sol	Band and Group freq Group shift	Ramirez Ramirez	JACS 75 (1953) JACS 76 (1954)	6026 1037
$C_{16}H_{16}O$	Benzyl-p-methylacetophenone	2-16/ μ	S	Spec, Group freq	Cromwell	JACS 73 (1951)	1044
$C_{16}H_{16}O$	2-Methyl-1,3-diphenyl-1-propene-3-ol	-	-	Group freq	Dreiding	JACS 75 (1953)	3723
$C_{16}H_{16}O$	p-Phenylbutyrophenone	650-4000	S, Sol	Group freq, I	Cromwell	JACS 75 (1953)	6252

$C_{16}H_{16}O_2$	7-Acetoxy-1,2,3,4-tetrahydrophenanthrene	-	S, Sol	Band freq	Scheer	JACS 77 (1955)	3300
$C_{16}H_{16}O_2$	1,2-Diphenylethyl acetate	1900-2600	L	Spec	Curtin	JACS 75 (1953)	6011
$C_{16}H_{16}O_2$	1,1-Diphenyl-1-methoxy-2-propanone	-	-	Ident	Stevens	JOC 19 (1954)	538
$C_{16}H_{16}O_2$	Ethyl diphenylacetate	2-15 μ	-	Absorp. freq, Struct, Anal	Rasmussen	JACS 71 (1949)	1073
$C_{16}H_{16}O_2$	2-Methyl-4-propenyl-phenylphenol	2.7-3.0 μ	Sol	H bond	Baker	JACS 80 (1958)	5358
$C_{16}H_{16}O_2$	3,5,3',5'-Tetra-methyldiphenoquinone	763-1650 1600-1800	S Sol	Table Group freq	Brown Fuson	JCS - (1954) JACS 76 (1954)	1280 2526
$C_{16}C_{16}O_3$	2-diacetylidene	3-14 μ	S	Spec, Struct	Ott	JACS 74 (1952)	6266
$C_{16}H_{16}O_3$	2,3-Dimethyl-5-hydroxy-1,4,11,12-tetrahydroanthraquinone	-	-	Spec	Inhoffen	CCA 29 (1957)	329
$C_{16}H_{16}O_3$	Lapachol methyl ether	2-12 μ	Sol	Spec	Ettlinger	JACS 72 (1950)	3666
$C_{16}H_{16}O_4$	Hydroxyislapachol methyl ether	2-12 μ	Sol	Spec	Ettlinger	JACS 72 (1950)	3666
$C_{16}H_{16}O_5$	Anisilic acid	5-7 μ	-	Spec, Group freq	Wasserman	JACS 75 (1953)	2056
$C_{16}H_{16}O_5$	7,8-Dimethoxy-4'-oxocyclohepteno-(2':1'-3:4)	-	S, Sol	Band & Group freq	Loewenthal	JCS - (1953)	3962

Continued

Chemical Formula	Chemical Name	Wavenumber (cm ⁻¹)	Solubility	Identification	Journal	Volume	Year
C ₁₆ H ₁₆ O ₆	4,6-Dimethoxy-2'-methylgrisan-3,4,6-trione	-	-	Ident	MacMillan	-	(1953) 1697
C ₁₆ H ₁₆ O ₆	2,3,4-Trimethoxybenzuber-5-ene-5,6-dicarboxylic anhydride	-	-	Spec, Freq	Koo	75	(1953) 720
C ₁₆ H ₁₆ O ₇	2-Naphthyl-β-D-glucopyranoside	2-14 μ	Sol	Spec, Assign, Band freq	Tsuo	74	(1952) 5605
C ₁₆ H ₁₆ O ₈	3-Carboxy-4-carboxyhydroxymethyl-5,6,7-trimethoxy-1-oxo-1,2,3,4-tetrahydronaphthalene lactone	-	S	Band & Group freq	Haworth	-	(1954) 3611
C ₁₆ H ₁₆ O ₈	Phenylacetyl-β-D-glucofuranosylactone	-	Sol	Group freq, Struct	Tsuo	75	(1953) 1042
C ₁₆ H ₁₆ O ₁₀	Pentacarbomethoxybenzene	-	S	Ident	Nes	76	(1954) 3182
C ₁₆ H ₁₆ S ₂	cis-bis-(p-Tolylmercapto) ethane	-	S	Ident	Nes	76	(1954) 3186
C ₁₆ H ₁₆ S ₂	trans-1,2-bis-(p-Tolylmercapto) ethane	-	Sol	Band freq	Truce	76	(1954) 5745
C ₁₆ H ₁₆ BrO ₄	cis-1- [(hydroxyacetoxy-p-bromophenyl)-methyl]-cyclohexane-2-carboxylic acid γ-lactone	2-16 μ	Sol	Band freq	Truce	76	(1954) 5745
				Spec	Bartlett	73	(1951) 4275

$C_{16}H_{16}BrO_4$	trans-1- [(hydroxy- acetoxy-p-bromo- phenyl)-methyl] - cyclohexane-2- carboxylic acid γ -lactone	2-16/ μ	Sol	Spec	Bartlett	JACS 73 (1951)	4275
$C_{16}H_{17}BrO_5$	Dihydroxyhydro- monocrotalic acid, +5.60°, stereo- isomer p-bromo- phenacyl ester	700-3500	Sol	Spec	Adams	JACS 74 (1952)	694
$C_{16}H_{17}BrO_5$	Dihydroxyhydro- monocrotalic acid, +60.00°, p- stereoisomer, p- bromophenacyl ester	700-3500	Sol	Spec	Adams	JACS 74 (1952)	694
$C_{16}H_{17}ClO_5$	7-Chloro-4,6- dimethoxy-2 - methylgrisan-3, 4 -dione	-	S	Group freq	Mulholland	JCS - (1952)	3994
$C_{16}H_{17}ClO_5$	7-Chloro-4,6- dimethoxy-6 - methylgrisan-3, 2 -dione	-	S	Group freq	Mulholland	JCS - (1952)	3994
$C_{16}H_{17}F_3O_7$	4:6-Benzylidene- trifluoroacetyl- α -methylglucoside	1720-1820	Sol	Spec, Struct	Bourne	JCS - (1951)	826

$C_{16}H_{17}N$	2-16 μ	Sol	Spec	Cope	JACS	73 (1951)	3424
p-Dimethylamino-phenylcyclooctatetraene							
$C_{16}H_{17}N$	5-15 μ	S	Spec, Band freq, Table	Thompson	JCS	- (1950)	214
2-Dimethylamino-stilbene							
$C_{16}H_{17}N$	5-15 μ	S	Spec, Band freq, Table	Thompson	JCS	- (1950)	214
3-Dimethylamino-stilbene							
$C_{16}H_{17}N$	5-15 μ	S	Spec, Band freq, Table	Thompson	JCS	- (1950)	214
4-Dimethylamino-stilbene							
$C_{16}H_{17}N$	-	-	Spec, Band freq, Table	Thompson	JCS	- (1950)	214
			Absorption, Freq assign, Struct	Katritzky	JCS	- (1959)	3674
4-Dimethylamino-trans stilbene	960	Sol	Struct	Orr	SA	8 (1956)	218
Ethylaminostilbene	5-15 μ	S	Spec, Band freq, Table	Thompson	JCS	- (1950)	214
N- α -Pherylpropylidenebenzylamine	600-4000	-	Spec, Assign	Hidalgo	ARS	53B (1957)	491
Benzoyl-d-amphetamine	650-4000	-	Spec	Chatten	AC	31 (1959)	1581
3,4-Dihydro-3-benzyl-6-methyl-1,3,2-benzoxazine	2-15 μ	S	Spec	Burke	JACS	72 (1950)	4691
2,3-Diphenyl-2-ethoxyethylenimine	2.5-12 μ	Sol	Spec, Group freq, Struct	Hatch	JACS	75 (1953)	38
1,2,9,10,11,12-Hexahydro-9-ketopyrrolidine	-	-	Group freq	Ginsberg	JCS	- (1953)	1524
(2:3'-4:12)phenanthrene							

$C_{16}H_{17}NO$	4-(p-Methoxyphenyl)- 1-methyl-2-methylene- 3-cyclohexenecarbo- nitrile	-	-	Band freq	Novello	JACS 76 (1954)	738
$C_{16}H_{17}NO_2$	10,16-Diketoiiso- morphinane	2.5-10.5 μ	Sol	Spec, Struct	Gates	JACS 72 (1950)	1141
$C_{16}H_{17}NO_2$	N,N-Dimethyl-6- phenylpiperonyl- amine	700-1477	Sol	Group freq	Briggs	AC 29 (1957)	904
$C_{16}H_{17}NO_2$	Δ^6 -10-Hydroxy-16- ketoisomorphinene	2.5-10.5 μ	Sol	Spec, Struct	Gates	JACS 72 (1950)	1141
$C_{16}H_{17}NO_2$	Des-N-methyl- α - β -erythroidine	-	- S	Spec Struct	Boekelheide Grundon	JACS 74 (1952) JACS 75 (1953)	1866 2537
$C_{16}H_{17}NO_2$	Iso-des-N-methyl- α - β -erythro- idine	2.5-15 μ	S	Spec, Group freq, Struct	Grundon	JACS 75 (1953)	2537
$C_{16}H_{17}NO_2S_2$	cis-Propenyl phenyl sulfide sulfilimine	650-1575	Sol	Spec, Anal	Tarbell	JACS 74 (1952)	48
$C_{16}H_{17}NO_2S_2$	trans-Propenyl phenyl sulfide sulfilimine	650-1575	Sol	Spec, Anal	Tarbell	JACS 74 (1952)	48
$C_{16}H_{17}NO_3$	Apo- β -erythro- idine methiodide betaine	2.5-15 μ	S	Spec, Group freq, Struct	Grundon	JACS 75 (1953)	2537
$C_{16}H_{17}NO_3$	Caranine	700-1500	- Sol	Group freq Group freq	Mason Briggs	JACS 77 (1955) AC 29 (1957)	1253 904
$C_{16}H_{17}NO_3$	Crinine	700-1500	- S, Sol	Group freq Group freq	Mason Briggs	JACS 77 (1955) AC 29 (1957)	1253 904

$C_{16}H_{17}NO_4$	4-Acetyl-3-(2',3'-dimethoxyphenyl)-5-hydroxyhexa-2,4-diene nitrile	-	Sol	Band freq	Walker	JACS	76 (1954)	309
$C_{16}H_{17}NO_4$	Lunine (VI)	1450-4000	S	Spec, Freq	Price	AJC	12 (1959)	589
$C_{16}H_{17}NO_4$	Lycorine	-	-	Ident	Wildman	JACS	76 (1954)	5815
$C_{16}H_{17}NO_4$		-	-	Ident	Mason	JACS	77 (1955)	1253
$C_{16}H_{17}NO_4$		-	S	Ident	Wildman	JACS	77 (1955)	1248
$C_{16}H_{17}NO_4$		700-1500	S	Group freq	Briggs	AC	29 (1957)	904
$C_{16}H_{17}NO_6$	2-Naphthyl- β -D-glucufuronamide	2-14 μ	Sol	Spec, Group assign, Band freq	Tsou	JACS	74 (1952)	5605
$C_{16}H_{17}NO_3$	Lysergic acid amide	-	-	Ident				
$C_{16}H_{18}$	2-t-Butyldiphenyl	-	S,Sol	Band freq	Cadogan	JCS	- (1954)	3352
$C_{16}H_{18}$	3-t-Butyldiphenyl	-	S,Sol	Band freq	Cadogan	JCS	- (1954)	3352
$C_{16}H_{18}$		-	-	Anal, Freq	Rondestvedt	JACS	77 (1955)	1769
$C_{16}H_{18}$	4-t-Butyldiphenyl	-	S,Sol	Band freq	Cadogan	JCS	- (1954)	3352
$C_{16}H_{18}$		-	-	Anal, Freq	Rondestvedt	JACS	77 (1955)	1769
$C_{16}H_{18}$	4,4'-Dimethyldibenzyl	3-12 μ	Sol	Spec	Cram	JACS	73 (1951)	5691
$C_{16}H_{18}$	9,10-Dimethyl-1,2,3,4-tetrahydro-phenanthrene	2-15 μ	-	Struct, Ident	Cagniant	BSCF	- (1957)	1403
$C_{16}H_{18}$	2,3-Diphenylbutane	700-3100	L,S	Spec	Richards	PRS	195 (1948)	1
$C_{16}H_{18}$		-	-	Freq, Anal	Dannley	JACS	77 (1955)	1588
$C_{16}H_{18}$		-	Sol	Freq	Potts	AC	27 (1955)	1027
$C_{16}H_{18}$	1-(o-Ethylphenyl)-1-phenylethane	2-16 μ	-	Spec, Struct	Corson	JOC	19 (1954)	17

$C_{16}H_{18}$	1-(p-Ethylphenyl)-1-phenylethane	2-16 μ	-	Spec, Struct	Corson	JOC	19 (1954)	17
$C_{16}H_{18}$	9-Ethyl-1,2,3,4-tetrahydrophenanthrene	2-15 μ	-	Struct, Ident	Cagniant	BSCF	- (1957)	1403
$C_{16}H_{18}$	1-Isobutyl-2-phenylbenzene	15-35 μ	S	Spec, Struct, Correlation	Bentley	SA	15 (1959)	165
$C_{16}H_{18}ClN_3S$	Methylene blue	6-12 μ	-	Absorption	Anderson	JOSA	39 (1949)	49
$C_{16}H_{18}INO_5$	Methyl acronylcidinium iodide (XI)	1450-4000	S	Spec, Freq	Price	AJC	12 (1959)	589
$C_{16}H_{18}NOP$	Octahydro-1,4-diphenyl-1,4-azaphosphine monoxide	-	S	Group freq	Mann	JCS	- (1952)	3039
$C_{16}H_{18}NAs$	Octahydro-1,4-diphenyl-1,4-azarsine	-	-	Spec, Ident	Beeby	JCS	- (1951)	886
$C_{16}H_{18}NO_2$	4,4'-Diethylazoxybenzene	1-15 μ	S, Sol, L	Assign	Maier	ZE	62 (1958)	1020
$C_{16}H_{18}NO_4$	N-(2-Benzyl-4-oxazoloyl)valine	650-3700	S	Spec	Adkins	JACS	72 (1950)	5401
$C_{16}H_{18}NO_5S$	Benzylpenicillinic acid	3-14.5 μ 5.6 μ 2-16 μ	Sol Sol S	Table Anal Spec	Trenner Coy Trenner	JACS AC AC	70 (1948) 21 (1949) 22 (1950)	2897 669 405
$C_{16}H_{18}NO_5S$	D-benzylpenicillinic acid	2-7 μ	S	Spec, Band, freq	Stavely	JACS	73 (1951)	3450

$C_{16}H_{18}N_2O_4S$	2-Phenyl- α -(3-carbomethoxypropionylamino)-2-thiazolidine-acetic acid- β -lactam	2-11 μ	Sol	Spec, Band freq	Sheehan	JACS	73 (1951)	4376
$C_{16}H_{18}N_4$	1-Benzimino-2,6-dicyano-2,6-dimethylpiperidine	2-15 μ	-	Group freq	Overberger	JACS	77 (1955)	4097
$C_{16}H_{18}N_4O$	dl-Isolysergic acid hydrazide	-	-	Ident	Kornfeld	JACS	76 (1954)	5256
$C_{16}H_{18}N_4O_2$	2-Amino-3,3-bis-(β -cyanoethyl)-5,6-dimethoxyindolenine	-	S	Freq	Walker	JACS	77 (1955)	3844
$C_{16}H_{18}N_4O_4S$	N,N-Diacetylsulfamethazine	-	-	Group freq	Ziegler	JACS	76 (1954)	594
$C_{16}H_{18}N_4O_4Si$	p-Trimethylsilyl-benzaldehyde-2,4-dinitrophenyl-hydrazone	-	-	Group study	Frisch	JACS	75 (1953)	1249
$C_{16}H_{18}O$	5-Benzylidene-3-methyl-2-propyl- Δ -cyclopentenone	1600-1800	Sol	Group freq	Fuson	JACS	76 (1954)	2526
$C_{16}H_{18}O$	6-Benzylidene-3,5,5-trimethyl- Δ -cyclohexenone	1600-1800	Sol	Group freq	Fuson	JACS	76 (1954)	2526
$C_{16}H_{18}O$	Dibenzylmethylcarbinol	-	-	Spec	Michinori	BCSJ	33 (1960)	1600
$C_{16}H_{18}O$	2,4-Diphenyl-3-oxapentane	-	Sol	Freq	Potts	AC	27 (1955)	1027
$C_{16}H_{18}O$	2,4,6,8,10,12-Hexadecaheptaenal	1400-2000	S	Spec	Blout	JACS	70 (1948)	194

$C_{16}H_{18}O_4$	all trans-Dimethyl tetradeca-2,4,6,8,10,12-hexaenedioate	-	S	Ident Group freq, I	Shaw Allan	JCS - (1954) JCS - (1955)	3217 1874
$C_{16}H_{18}O_4$	Methyl cyclohexane spiro-3-(3,4-dihydroisocoumarin-4-carboxylate)	-	Sol	Group freq, Struct	Loewenthal	JCS - (1952)	4799
$C_{16}H_{18}O_6$	4-Acetyl-3-(2,3-dimethoxyphenyl)-5-hydroxyhexa-2,4-dienoic acid	-	Sol	Band freq	Walker	JACS 76 (1954)	309
$C_{16}H_{18}O_8$	2-Carbomethoxy-4,6-dimethoxycoumaran-3-one-2- β -butyric acid	-	S, Sol	Group freq, Band freq, H bond	MacMillan	JCS - (1953)	1697
$C_{16}H_{18}O_8$	4-Diacetoxymethyl-3,7-dimethoxy-6-methylphthalide	-	S	Group freq	Grove	JCS - (1952)	3345
$C_{16}H_{18}O_9$	Chlorogenic acid	1-15 μ	S	Spec	Barnes	JACS 72 (1950)	4178
$C_{16}H_{18}O_9$	Isochlorogenic acid	1-15 μ	-	Spec	Barnes	JACS 72 (1950)	4178
$C_{16}H_{19}ClO_5$	7-Chloro-4-hydroxy-4,6-dimethoxy-2-methylgrisan-3-one	-	S	Group freq	Mulholland	JCS - (1952)	3994
$C_{16}H_{19}NO$	16-Ketoisomorphinan	2.5-10.5 μ	Sol	Spec, Struct	Gates	JACS 72 (1950)	1141
$C_{16}H_{19}NO$	8-Oxoerythrinane	-	-	Group freq	Belleau	JACS 75 (1953)	5765
$C_{16}H_{19}NO$	d,l- β -Phenylephedrine	600-1600	Sol	Spec	Kanzawa	BCSJ 29 (1956)	398

$C_{16}H_{19}NO$	dl-d-Phenylephedrine	600-1600	Sol	Spec	Kanzawa	BCSJ	29 (1956)	398
$C_{16}H_{19}NO \cdot HCl$	d-Phenylephedrine hydrochloride	600-1600	S	Spec	Kanzawa	BCSJ	29 (1956)	398
$C_{16}H_{19}NO \cdot HCl$	dl-Phenylephedrine hydrochloride	600-1600	S	Spec	Kanzawa	BCSJ	29 (1956)	398
$C_{16}H_{19}NO_2$	Dihydro-des-N-methylapo- β -erythroidine	-	-	Group freq, Struct	Grundon	JACS	75 (1953)	2537
$C_{16}H_{19}NO_2$	10-Hydroxy-16-keto-isomorphinane	2.5-10.5 μ	Sol	Spec, Struct	Gates	JACS	72 (1950)	1141
$C_{16}H_{19}NO_2S$	n-Propyl phenyl sulfide sulfilimine	650-1575	Sol	Spec, Anal	Tarbell	JACS	74 (1952)	48
$C_{16}H_{19}NO_3$	2-(2-carboxy-2-propyl)-4-(2-cyano-2-propoxy)-3,6-dimethylphenol lactone	-	-	Group freq	Aparicio	JCS	- (1952)	4666
$C_{16}H_{19}NO_3$	α -Erythroidine	2.5-15 μ	S	Struct, Group freq, Spec	Boekelheide	JACS	7 (1953)	2550
$C_{16}H_{19}NO_3 \cdot HCl$	α -Erythroidine hydrochloride	2.5-15 μ	S	Spec Band study	Boekelheide Godfrey	JACS	75 (1953) 77 (1955)	2563 3342
$C_{16}H_{19}NO_3 \cdot HCl$	β -Erythroidine hydrochloride	2.5-15 μ	S	Spec Band study	Boekelheide Godfrey	JACS	75 (1953) 77 (1955)	2563 3342
$C_{16}H_{19}NO_3$	Lunaerine(V)	1450-4000	S, Sol	Freq	Price	AJC	12 (1959)	589
$C_{16}H_{19}NO_3$	1-Phenyl-4-ethyl-4-n-butyl-2,3,5-pyrrolidinetriene	-	-	Spec	Skinner	JACS	72 (1950)	5569

$C_{16}H_{19}NO_3$	-	-	Spec	Skimmer	JACS	72 (1950)	5569
1-(2-Phenylethyl)-4,4-dieethyl-2,3,5-pyrrolidinetrione	-	-	Spec	Chatten	AC	31 (1959)	1581
$C_{16}H_{19}NO_3$	650-4000	-	Spec	Findlay	JACS	76 (1954)	2855
N-Benzenesulfonyl-ephedrine	2-15 μ	S	Spec	Li	JACS	77 (1955)	3519
Benzoyl-ecgonine	3-15 μ	L,S	Spec, Freq, Group freq	LeFevre	AJC	10 (1957)	26
N-Dibenzylphosphonyl-glycine	600-1700	S	Spec, Freq	Baker	JOC	18 (1953)	178
4-Dimethylamino-azobenzene	-	-	Group freq, Struct, Ident	Baker	JOC	17 (1952)	132
Isofebrifugine	-	-	Ident	Ablondi Baker	JOC JOC	17 (1952) 18 (1953)	14 178
$C_{16}H_{19}N_2O_3 \cdot H_2O \cdot 2HCl$	650-4000	-	Spec, Ident	Mosby	JACS	74 (1952)	2564
3 [β -Keto- γ -(3-hydroxy-2-piperidyl)propyl] 4-quinazolone dihydrochloride	650-4000	-	Spec, Ident	Cram	JACS	77 (1955)	4090
(α -3- $[\beta$ -Keto-(3-hydroxy-2-piperidyl)propyl] 4-quinazolone dihydrochloride	2-16 μ	S	Spec	Ramirez	JACS	77 (1955)	1035
1,2,3,4,5,8-Hexamethylnaphthalene	-	-	Freq				
5- $[\text{10}]$ -Paracyclophane	-	-	Band freq, I				
Ethyl 2-(2'-dicarboethoxy)-ethyl-6-chloro-nicotinate	-	Sol					

$C_{16}H_{20}N_2$	2,5-Dicyano-2,5-dimethyl-3-phenylhexane	-	-	Group & Band fre	Gingras	JCS	- (1954)	3508
$C_{16}H_{20}N_2$	N,N'-Dimethyl-p,p'-diaminobenzyl	-	-	Table	Fuson	JACS	75 (1953)	1327
$C_{16}H_{20}N_2$	2,4,6-Octatrienalazine	1400-2000	S	Spec	Blout	JACS	70 (1948)	194
$C_{16}H_{20}N_2O \cdot 2HBr$	5-Methyl-7-(1-piperidylmethyl)-8-quinolinol dihydrobromide	-	-	Struct	Edgerton	JACS	74 (1952)	5209
$C_{16}H_{20}N_2O_2$	2,5-Dimethylquinol di-(2'-cyano-2'-propyl)ether	-	-	Group freq	Aparicio	JCS	- (1950)	4666
$C_{16}H_{20}N_2O_3$	4-N,N-Dipropyl-amido-7-methylisatin	1500-3500	S, Sol	Freq, Assign, Struct	Sadler	JCS	- (1959)	667
$C_{16}H_{20}N_2O_4$	D-4,4'-Dicarboxy-1,1',3,3',5,5'-hexamethyl-2,2'-bipyrryl	700-1800	S	Spec	Webb	JOC	18 (1953)	1413
$C_{16}H_{20}N_2O_4$	dL-4,4'-Dicarboxy-1,1',3,3',5,5'-hexamethyl-2,2'-bipyrryl	700-1800	S	Spec	Webb	JOC	18 (1953)	1413
$C_{16}H_{20}N_2O_9$	Methyl cladinoside 3,5-dinitrobenzoate	-	-	Group study	Flynn	JACS	76 (1954)	3121

Chemical Name	Spec	Author	Year	Page
$C_{16}H_{20}O$ 5,6,7,7a,8,9,10,11,12a-Decahydro-5-ketobenzo [a] heptalene	-	Ginsberg	(1954)	2361
$C_{16}H_{20}O$ 1,4,5,6,7,8,9,10,11,12-Decahydro-5-oxo-2,3-benzohexalene	-	Ginsberg	(1954)	2361
$C_{16}H_{20}O$ 1,14-Dimethyl-2-keto- Δ 1(11),6,9-Octahydrophenanthrene	Sol	Woodward	(1952)	4223
$C_{16}H_{20}O$ 6-Keto-4-[10]-paracyclophene	-	Cram	(1955)	4090
$C_{16}H_{20}O_2$ 1,4-(5',6'-Diketodecamethylene)benzene	Sol	Cram	(1954)	2743
$C_{16}H_{20}O_2$ trans-2,4,6,12,14-Hexadecapentaen-9-yne-8,11-diol	S	Allan	(1955)	1874
$C_{16}H_{20}O_2$ 1,4-(5-Hydroxy-6' Δ -decamethylene)benzene	Sol	Cram	(1954)	2743
$C_{16}H_{20}O_2$ 1-Keto-7-methoxy-12-methyl-1,2,3,4,9,10,11,12-octahydrophenanthrene	-	Stork	(1951)	3544
$C_{16}H_{20}O_2$ 9-Keto-7-methoxy-12-methyl-1,2,3,4,9,10,11,12-octahydrophenanthrene	-	Deno	(1954)	2015

$C_{16}H_{20}O_2$	2-[β -m-methoxy-phenethyl]- β -methyl- Δ -cyclohexenone	-	-	Freq	Stork	JACS 73 (1951)	3544
$C_{16}H_{20}O_3$	2-Benzoylcycloheptyl-acetic acid	-	-	Group freq	Ginsberg	JCS - (1954)	2361
$C_{16}H_{20}O_4$	2-(2',3',4'-Trimethoxy-phenyl)cyclohept-2-enone	-	L	Group freq	Ginsberg	JACS 76 (1954)	3628
$C_{16}H_{20}O_5$	Glaucanol	-	-	Group study	Ham	JACS 76 (1954)	6066
$C_{16}H_{20}O_7$	β -Acetyl-4:6-benzylidene- α -methylglucoside	1720-1820	Sol	Spec, Struct, Group freq	Bourne	JCS - (1951)	826
$C_{16}H_{20}O_7$	Methyl picrotoxate	2-16/ μ	S	Spec, Band freq	Conroy	JACS 74 (1952)	491
$C_{16}H_{20}Si$	Diphenyl-n-butylsilane	2-16/ μ	Sol	Freq	Kniseley	SA 15 (1959)	651
$C_{16}H_{20}Si$	Di- β -phenylethylsilane	2-16/ μ	Sol	Freq	Kniseley	SA 15 (1959)	651
$C_{16}H_{21}N$	Erythrinane	-	-	Band study	Belleau	JACS 75 (1953)	5765
$C_{16}H_{21}N$	5,5-Dimethyl- β -isopropylidene-2-m-tolylpyrrolone	6.39/ μ	Sol	Freq	Meyers	JOC 24 (1959)	1233
$C_{16}H_{21}N$	5,5-Dimethyl- β -isopropylidene-2-o-tolylpyrrolone	6.39/ μ	Sol	Freq	Meyers	JOC 24 (1959)	1233
$C_{16}H_{21}N$	5,5-Dimethyl- β -isopropylidene-2-p-tolylpyrrolone	6.39/ μ	Sol	Freq	Meyers	JOC 24 (1959)	1233

Chemical Formula	Compound Name	Wavenumber Range	State	Ident	Author	JACS	Year	Page
C ₁₆ H ₂₁ NO	N-Benzoylcamphenilyl-amine	-	-		Vaughan	JACS	75 (1953)	3168
C ₁₆ H ₂₁ NO ₂	3-Acetyl-1,2,3,3a,4,8b-hexahydro-1-hydroxy-1,4,8b-trimethylcyclopent [b] indole	-	-	Group study	Robinson	JCS	- (1953)	2596
C ₁₆ H ₂₁ NO ₂	N-Cyclohexyl-β-benzoylpropionamide	700-4000	S, Sol	Band assign, Struct, Taut	Cromwell	JACS	80 (1958)	4573
C ₁₆ H ₂₁ NO ₂	2-(β-Phenylacetamidoethyl)cyclohexanone	-	-	Group freq	Belleau	JACS	75 (1953)	5765
C ₁₆ H ₂₁ NO ₃	Dihydro-β-erythro-idine	2.5-15 μ	S	Spec, Group freq, Struct	Boekelheide	JACS	75 (1953)	2550
C ₁₆ H ₂₁ NO ₄	4-Hydroxy-3-(2'-hydroxyisoamyl)-8-methoxy-1-methyl-2-quinolone	1450-4000	S	Spec, Freq	Price	AJC	12 (1959)	589
C ₁₆ H ₂₁ NO ₇ S	Monocrotaline sulfite	600-4000	S	Spec, Struct	Adams	JACS	74 (1952)	5612
C ₁₆ H ₂₁ NO ₇ S.HCl	Monocrotaline sulfite hydrochloride	600-4000	-	Spec, Struct	Adams	JACS	74 (1952)	5876
C ₁₆ H ₂₁ N ₅ O ₈ S	5-Nitroso-6-amino-4-triacetyl-D-xylosidamino-2-methylthioprimidine	1450-1800 2-15 μ	S	H bond, Spec Spec assign	Brownlie Brownlie	JCS JCS	- (1948) - (1950)	2265 3062

$C_{16}H_{22}$	9-Ethyl-1,2,3,4,5,6,7,8-octahydrophenanthrene	2-15 μ	-	Struct, Ident	Cagniant	BSCF - (1957)	1403
$C_{16}H_{22}$	cis-5-[10] Paracyclophene	-	-	Group freq	Cram	JACS 77 (1955)	4090
$C_{16}H_{22}$	2-Phenyl-2,6-dimethylbicyclo [3.2.1] octane	670-2150	Sol	Spec	Ipatieff	JOC 17 (1952)	143
$C_{16}H_{22}Cl_2N_2O_2$	2,5-Dichloro-3-butylamino-6-(2-butylaminovinyl) benzquinone	-	Sol	Absorption	Buckley	JCS - (1957)	4891
$C_{16}H_{22}N_2O_2$	Ethyl α -(N-ethyl-N- γ' -cyanopropylamino) phenylacetate	-	-	Group freq	Leonard	JACS 75 (1953)	3727
$C_{16}H_{22}O$	o-Bornylphenol	1050-1800	-	Absorp freq, Spec	Barnes	IEC 15 (1943)	659
$C_{16}H_{22}O$	p-Bornylphenol	1050-1800	-	Absorp freq, Spec	Barnes	IEC 15 (1943)	659
$C_{16}H_{22}O$	(10-p)cyclophanone-1	-	Sol	Group freq	Schubert	JACS 76 (1954)	5462
$C_{16}H_{22}O$	1,14-Dimethyl-2-keto- Δ ^{1(12),6} -decahydroanthracene	2-12 μ	Sol	Band freq	Woodward	JACS 74 (1952)	4223
$C_{16}H_{22}O$	2-Isobornylphenol	3 μ band	L,S, Sol	H bond	Sears	JACS 70 (1949)	4110
$C_{16}H_{22}OSi_2$	Ethylphenyl siloxyphenylethylsilane	2050-2250	S	Freq, Struct	Smith	SA 15 (1959)	412
$C_{16}H_{22}O_2$	5,8-Dimethoxy-1,2,3,4,4a,9,10,10a-octahydrophenanthrene	7.98-9.39 μ	Sol	Band freq, I	Barnes	JACS 75 (1953)	3004

C ₁₆ H ₂₂ O ₂	5.84-14.09 μ S	Table, I	JACS	76 (1954)	3965
2-(α-Isopropoxybenzyl)cyclohexanone	1150-1750	Spec, Assign	IANS	-	(1960) 1644
2-Methyl-2-[2-methyl-2-(2-cyclohexen-1-ylidene)ethyl] 1,3-cyclohexanedione	7.53-10.37 μ Sol	Band freq	JACS	75 (1953)	3004
1'-Spirocyclohexyl-(2',3'-2,3)-(1,4-dimethoxybenzo)cyclopentane	3-14.5 μ S	Band freq, Group freq	JACS	75 (1953)	1628
meso-3,4-DI-(5-methoxy-2-thienyl)hexane	-	Group freq	JACS	77 (1955)	3272
3,3-Dimethyl-2-ke to-butyl mesitoate	2-12 μ Sol	Spec	JACS	74 (1952)	4223
1,14-Dimethyl-2-ke to-6,7-dihydroxy-1(11),9-Δ-decahydro-phenanthrene	1550-1750	Spec, Association	IANS	-	(1960) 1644
2-Methyl-2-[2-(2-methyl-3-oxo-1-cyclohexenyl)ethyl] 1,3-cyclohexanedione	1000-1800 2-14 μ 1740	Spec Spec Absorp band, Freq Low temp. Band freq, I, Spec Spec, Anal, Group freq	IEC JCP AC JCP APS AC	15 (1943) 16 (1948) 21 (1949) 18 (1950) 7 (1953) 25 (1953)	659 446 914 552 179 844
Dibutyl phthalate	-		Barnes Kapff Hampton Walsh Kendall Pristera		

$C_{16}H_{22}O_4$	7,7'-Dicyclohexyl-7,7'-butadiyn-6,6'-dihydroperoxide	-	-	Group freq	Milas	JACS 75 (1953)	5970
$C_{16}H_{22}O_5$	2-Hydroxy-2-(2',3',4'-trimethoxyphenyl)cycloheptanone	-	L	Group freq	Ginsberg	JACS 76 (1954)	3628
$C_{16}H_{22}O_5$	2,2,3-Trimethyl-3-amylo- <i>o</i> -perphthalate	5-15 μ	Sol	Spec, Group study	Minkoff	PRS 224 (1954)	176
$C_{16}H_{22}O_6$	Di- <i>t</i> -butyl perphthalate	-	Sol	Table, Group freq	Davison	JCS - (1951)	2456
$C_{16}H_{22}O_6$	Coniferin	665-5000	Sol	Spec, Group freq	Ory	AC 32 (1960)	509
$C_{16}H_{22}O_8$	scyllo-Quercitol pentaacetate	600-4000	-	Spec, Group freq	Herzert	JOC 25 (1960)	405
$C_{16}H_{22}O_{10}$	l-ribo-Quercitol pentaacetate	-	S	Group & Band freq	Barker	JCS - (1954)	4211
$C_{16}H_{22}O_{10}$	Pentaacetyl- α -D-galactose	-	S	Group & Band freq	Barker	JCS - (1954)	4211
$C_{16}H_{22}O_{11}$	Pentaacetyl- β -D-galactose	2-15 μ	Sol	Anal, Band freq, I	Whistler	AC 25 (1953)	1463
$C_{16}H_{22}O_{11}$	1,2,3,4,6-Penta-O-acetyl- α -D-glucopyranose	2-15 μ	Sol	Anal, Band freq, I	Whistler	AC 25 (1953)	1463
$C_{16}H_{22}O_{11}$	Pentaacetyl- α -D-galactose	-	S	Band freq, I	Barker	JCS - (1954)	3468
$C_{16}H_{22}O_{11}$	Pentaacetyl- α -D-glucose	8-15 μ	S	Band freq, I	Barker	JCS - (1954)	3468
$C_{16}H_{22}O_{11}$	Pentaacetyl- α -D-glucose	7.5-15 μ	S	Spec	Kuhn	AC 22 (1950)	276
$C_{16}H_{22}O_{11}$	Pentaacetyl- α -D-glucose	2-15 μ	Sol	Spec, Anal	Bonner	JACS 73 (1951)	2659
$C_{16}H_{22}O_{11}$	Pentaacetyl- α -D-glucose	-	S	Anal, Band freq, I	Whistler	AC 25 (1953)	1463
$C_{16}H_{22}O_{11}$	Pentaacetyl- α -D-glucose	800-3000	S	Group & Band freq, I	Barker	JCS - (1954)	4211
$C_{16}H_{22}O_{11}$	Pentaacetyl- α -D-glucose	-	S	Spec, Anal	Barker	N 186 (1960)	307

$C_{16}H_{22}O_{11}$	Pentaacetyl- β -D-glucose	8-15 μ 7.5-15 μ 5-13 μ 2-15 μ - 800-3000	S S Sol Sol S S	Spec Spec, Anal Spec Anal, Band freq, I Band freq, I Freq	Kuhn Bonner Tsou Whistler Barker Barker	AC JACS JACS AC JCS N	22 (1950) 73 (1951) 74 (1952) 25 (1953) - (1954) 186 (1960)	276 2659 3066 1463 3468 307
$C_{16}H_{22}O_{11}$	Pentaacetyl- α -D-mannose	2-15 μ	Sol	Anal, Band freq, I	Whistler	AC	25 (1953)	1463
$C_{16}H_{22}O_{11}$	Pentaacetyl- β -D-mannose	2-15 μ -	Sol S	Anal, Band freq, I Band freq, I	Whistler Barker	AC JCS	25 (1953) - (1954)	1463 3468
$C_{16}H_{22}O_{11}$	Pentaacetyl- α -D-talopyranose	2-15 μ	S	Spec, Config.	Isbell	JRNB	57 (1956)	179
$C_{16}H_{23}ClO_2$	2,4-Di- <i>t</i> -butyl-6-chlorophenyl acetate	2.5-15.5 μ	Sol	Spec	Wright	APS	9 (1955)	105
$C_{16}H_{23}NO_2$	N-Cyclohexyl- γ -hydroxy- γ -phenylbutyramide	1500-3500	S, Sol	Band assign, Struct	Cromwell	JACS	80 (1958)	4573
$C_{16}H_{23}NO_2$	Des-N-methyldihydro- β -erythroidinol	- -	- -	Ident Group freq, Struct	Boekelheide Weinstock	JACS JACS	75 (1953) 75 (1953)	2558 2546
$C_{16}H_{23}NO_3$	Tetrahydro- β -erythro- <i>id</i> ine	-	-	Group freq, Iso	Boekelheide	JACS	75 (1953)	2550
$C_{16}H_{23}NO_4$	N-Carboethoxymethyl-N- γ -carboethoxypropylaniline	-	-	Group freq	Leonard	JACS	75 (1953)	3727
$C_{16}H_{23}NO_6$	Monocrotaline	600-4000	- Sol	Band & Group freq Spec	Adams Adams	JACS JACS	74 (1952) 74 (1952)	5612 5876
$C_{16}H_{23}NO_7$	Dihydromonocrotaline sulfite	600-4000 600-4000	- -	Spec, Struct Spec, Struct	Adams Adams	JACS JACS	74 (1952) 74 (1952)	5612 5876

$C_{16}H_{23}NO_7$	Dihydromonocrotaline sulfite hydrochloride	600-4000	-	Spec, Struct	Adams Adams	JACS 74 (1952) JACS 74 (1952)	5612 5876
$C_{16}H_{23}NO_{10}$	2-Acetamido-1,3,4,6-tetra- <i>o</i> -acetyl-2-deoxy- α -D-glucopyranose	-	S	Band freq, I	Barker Barker	JCS - (1954) JCS - (1954)	3468 4211
$C_{16}H_{24}$	1,4-Decamethylenebenzene	-	L	Group study	Cram Cram	JACS 76 (1954) JACS 77 (1955)	2743 4090
$C_{16}H_{24}N_2O_2$	N,N,N',N'-Tetraallylsuccinamide	-	-	Group study	Butler	JACS 77 (1955)	1767
$C_{16}H_{24}O$	1-Cyclohexylidene-2-(5'-methoxy-2'-methyl-enecyclohexylidene-1)ethane	-	-	Freq	Milas	JACS 77 (1955)	4180
$C_{16}H_{24}O$	Heptyl p-xylyl ketone	1600-1800	Sol	Group freq	Fuson	JACS 76 (1954)	2526
$C_{16}H_{24}O$	Nonyl phenyl ketone	1600-1800	Sol	Group freq	Fuson	JACS 76 (1954)	2526
$C_{16}H_{24}O$	1,2,3,4,5,6,8,9,10,11,12,5a,12a,12b-Tetra-decahydro-6-oxodicyclohepta [a,c] benzene	-	Sol	Group freq	Rosenfelder	JCS - (1954)	2955
$C_{16}H_{24}O_2$	1,4-(5',6'-Dihydroxydecamethylene)benzene (mp 101-2°)	-	Sol	Group freq	Cram	JACS 76 (1954)	2743
$C_{16}H_{24}O_2$	1,4-(5',6'-Dihydroxydecamethylene)benzene (mp 102-3°)	-	Sol	Group freq	Cram	JACS 76 (1954)	2743

$C_{16}H_{25}NO_5$	1-(4-Methylcyclohexyl)-4,4-dicarboxy-2-azetidinone	2-11 μ	Sol	Spec	Sheehan	JACS	73 (1951)	1761
$C_{16}H_{25}NO_6$	Desoxyretrone cine-monocrotalate	600-4000 600-4000	S S	Spec Spec	Adams Adams	JACS JACS	74 (1952) 74 (1952)	5612 5876
$C_{16}H_{25}N_3$	1-6-cyanosparteine	-	Sol	Group freq	Leonard	JACS	77 (1955)	1552
$C_{16}H_{25}N_3HI$	1-6-cyanosparteine hydriodide	-	-	Band freq	Leonard	JACS	77 (1955)	1552
$C_{16}H_{26}$	1,4-Bis-(n-pentyl)benzene	-	-	Band study	Cram	JACS	76 (1954)	2743
$C_{16}H_{26}$	n-Decylbenzene	15-35 μ	S	Spec, Struct, Correlation	Bentley	SA	15 (1959)	165
$C_{16}H_{26}$	2-Phenyldecane	2-15.5 μ	L	Spec, Struct, Ident	Lenmanan	JOC	19 (1954)	468
$C_{16}H_{26}O$	Allyl- β -ionol	-	-	Group freq	Oroshnik	JACS	76 (1954)	2325
$C_{16}H_{26}O$	2,6-Di-t-butyl-4-ethylphenol	- -	- Sol	Freq shift Spec	Coggeshall Goddu	JACS JACS	69 (1947) 82 (1960)	1620 4533
$C_{16}H_{26}O$	2,4-Dimethyl-6-tocetylphenol	650-1400 3 μ	Sol	Spec H bond	Shrewsbury Sears	SA JACS	16 (1960) 71 (1949)	1294 4110
$C_{16}H_{26}O_2$	2,6-Di-t-butyl-4-ethoxyphenol	3 μ	Sol	H bond	Sears	JACS	71 (1949)	4110
$C_{16}H_{26}O_2$	2-(3,7-Dimethyl-2-octeryl)-1,3-cyclohexanedione	1550-1750	Sol	Spec, Assign	Ananchinko	IANS	- (1960)	1644
$C_{16}H_{26}O_2$	1,4-bis-(1-Hydroxycyclohexyl)-trans-1,trans-3-butadiene	-	L	Group freq, I	Allan	JCS	- (1955)	1874

$C_{16}H_{26}O_3$	2-t-Butylperoxy-4-t-butyl-2,6-dimethylcyclohexa-3,5-dienone	5.7-6.2 μ	Sol	Group study	Bickel	JCS - (1953)	3211
$C_{16}H_{26}O_3$	4-t-Butylperoxy-2-t-butyl-4,6-dimethylcyclohexa-2,5-dienone	5.7-6.2 μ	Sol	Group study	Bickel	JCS - (1953)	3211
$C_{16}H_{26}O_3$	4-t-Butylperoxy-4-t-butyl-2,6-dimethylcyclohexa-2,5-dienone	5.7-6.2 μ	Sol	Group study	Bickel	JCS - (1953)	3211
$C_{16}H_{26}O_4$	Diallyl sebacate	1050-1800	-				
$C_{16}H_{26}O_4$	Tetraacetyloctane	2.5-6.5 μ	Sol	Freq assign	Martin	JACS 81 (1959)	130
$C_{16}H_{26}O_4$	Tetrahydropseudosantonin methyl ester	1650-1800	Sol	Spec, Group freq, Struct	Dauben	JACS 75 (1953)	3352
$C_{16}H_{26}O_5$	2,2'-Dihydroxydicycloheptyl ether diformate	-	-	Ident	Cope	JACS 76 (1954)	279
$C_{16}H_{26}O_9$	Hexaethyleneglycol maleate	1150-1800	S	Spec	Barnes	IEC 15 (1943)	659
$C_{16}H_{28}N_2$	1,4-bis-(Diallylamino)butane	-	-	Group indic	Butler	JACS 77 (1955)	1767
$C_{16}H_{28}N_2$	1-6-Methylsparteine	-	Sol	Band freq	Leonard	JACS 77 (1955)	1552
$C_{16}H_{28}N_2 \cdot HClO_4$	1-6-Methylsparteine perchlorate	-	Sol	Band study	Leonard	JACS 77 (1955)	1552
$C_{16}H_{28}N_4O_5S$	Biocytin	2-16 μ	-	Spec	Peck	JACS 74 (1952)	1999
$C_{16}H_{28}OSi$	Trimethylsilylheptyl phenyl ether	-	-	Inductive effect	Josien	CPR 249 (1959)	826

$C_{16}H_{28}O_4$	Hexahydropseudo- antonin methyl ester	1600-1800	Sol	Spec, Group freq, Struct	Dauben	JACS 75 (1953)	3352
$C_{16}H_{28}O_4$	Lauryl fumarate	2-15 μ	L	Assign, Discussion	Walton	JACS 79 (1957)	3985
$C_{16}H_{28}Si$	Phenyl-n-decylsilane	2-16 μ	Sol	Freq	Kniseley	SA 15 (1959)	651
$C_{16}H_{29}N$	N-(1,3-Dimethylbutyl)- 2-isopropyl-4-methyl- cyclohexenimine	-	-	Band freq	Smith	JACS 75 (1953)	3316
$C_{16}H_{29}NO$	N-Isobutyl-cis-2-cis- 8-dodecadienamide	2.5-14 μ	L	Spec	Crombie	JCS - (1952)	2997
$C_{16}H_{29}NO$	N-Isobutyl-cis-2-trans- 8-dodecadienamide	2.5-14 μ	L	Spec	Crombie	JCS - (1952)	2997
$C_{16}H_{29}NO$	N-Isobutyl-trans-2-cis- 8-dodecadienamide	2.5-14 μ	L	Spec	Crombie	JCS - (1952)	2997
$C_{16}H_{29}NO$	N-Isobutyl-trans-2- trans-8-dodecadien- amide	2.5-14 μ	L	Spec	Crombie	JCS - (1952)	2997
$C_{16}H_{29}NO_2$	Dicyclohexylamine- 2-butene-1,4-diol adduct	1000-3750	S	H bond	Nakagawa	BCSJ 33 (1960)	433
$C_{16}H_{30}$	cis-Bicyclo [10,2,2] hexadecane	-	-	Band freq	Cram	JACS 76 (1954)	2743
$C_{16}H_{30}$	1,1-Dicyclohexyl- butane	- 15-35 μ	- S	Band freq, Absorbance Spec, Struct, Correlation	Bomstein Bentley	AC 25 (1953) SA 15 (1959)	512 165
$C_{16}H_{30}$	1,2-Dicyclohexylbutane	-	-	Band freq, Absorbance	Bomstein	AC 25 (1953)	512
$C_{16}H_{30}$	1,3-Dicyclohexyl-	-	-	Band freq, Absorbance	Bomstein	AC 25 (1953)	512

$C_{16}H_{31}NO$	N-Isobutyl-cis- Δ^2 - dodecenamide	950-1000	L	Spec	Crombie	JCS - (1952)	2997
$C_{16}H_{31}NO$	N-Isobutyl-trans- Δ^2 - dodecenamide	950-1000	L	Spec	Crombie	JCS - (1952)	2997
$C_{16}H_{31}NO_2$	Dicyclohexylamine- 2-cis-1,4-butene diol adduct	1000-3750	S	H bond	Nakagawa	BCSJ 33 (1960)	433
$C_{16}H_{31}NO_2$	Dicyclohexylamine- 2-trans-1,4-butene- diol adduct	1000-3750	S	H bond	Nakagawa	BCSJ 33 (1960)	433
$C_{16}H_{31}NO_2$	Dicyclohexylamine- 1,3-butenediol adduct	1000-3750	S	H bond	Nakagawa	BCSJ 33 (1960)	433
$C_{16}H_{31}NO_2$	Dicyclohexylamine- 1,4-butenediol adduct	1000-3750	S	H bond	Nakagawa	BCSJ 33 (1960)	433
$C_{16}H_{31}NO_2$	Dicyclohexylamine- 2,3-butenediol adduct	1000-3750	S	H bond	Nakagawa	BCSJ 33 (1960)	433
$C_{16}H_{31}NO_2$	1-Ethyl-1-azacyclo- pentadecan-8-ol-9- one	-	Sol	Group freq	Leonard	JACS 76 (1954)	5708
$C_{16}H_{31}NO_2.HCl$	Ethyl 2,6-cis-deoxy- carbamate hydro- chloride	-	-	Ident	Govindachari	JCS - (1955)	1563
$C_{16}H_{31}NO_4$	Diethyl γ, γ' -t- butylaminobis- butyrate	-	L	Group & Band freq	Leonard	JACS 76 (1954)	3463

RECEIVED FROM THE AUTHOR
 JACS 76 (1954) 3463

$C_{16}H_{31}NO_{10} \cdot HCl$			Absorption	Brink	JACS	68 (1946)	2557
Methylstreptobios- aminide dimethyl acetal hydrochloride	-	-					
$C_{16}H_{32}$	1,4-bis-(n-Pentyl) cyclohexane	-	Band study	Cram	JACS	76 (1954)	2743
$C_{16}H_{32}$	Butene tetramer	-	Band freq, Struct	Plesch	JCS	- (1947)	257
$C_{16}H_{32}$	Cyclohexadecane	650-1600	Spec	Billetter	HCA	41 (1958)	338
$C_{16}H_{32}$	n-Decylcyclohexane	15-35 μ	Spec, Struct, Correlation	Bentley	SA	15 (1959)	165
$C_{16}H_{32}$	1-Hexadecene	-	Group freq	Bonino	TFS	25 (1929)	876
		2.6-3.8 μ	Spec, Assign	Fox	PRS	175 (1940)	208
		3-9 μ	Spec	Holman	AC	28 (1956)	1533
		-	Band assign	Harrah	JCP	33 (1960)	298
$C_{16}H_{32}$	Tetraisobutylene	1100-1650	Spec	Barnes	IEC	15 (1943)	659
$C_{16}H_{32}DNO_2$	Palmitohydroxamic acid-d ₁	700-4000	Spec, H bond	Hadzi	SA	10 (1958)	38
$C_{16}H_{32}N_2O_2$	N,N',N'-Tetraethyl- α -ethyl- β -methyl- glutaramide	600-4000	Spec	Snyder	JACS	76 (1954)	33
$C_{16}H_{32}O_2$	cis-Cyclohexadecane- 1,2-diol	-	Group freq	Kuhn	JACS	76 (1954)	4323
$C_{16}H_{32}O_2$	trans-Cyclohexadecane- 1,2-diol	-	Group freq	Kuhn	JACS	76 (1954)	4323
$C_{16}H_{32}O_2$	Dihydro-4-methyl-4- neopentyl-2-1',3', 3'-Trimethylbutyl- dioxole	-	Ident	Graham	JCS	- (1954)	2180

Publ	Chemical	Wavenumber	Sol	Freq, Assign	Author	Publ	Year	Page
C ₁₆ H ₃₃ NO	trans-2-Aminocyclohexadecanol	-	Sol	Freq, Assign	Sicher	CCCC	24 (1959)	950
C ₁₆ H ₃₃ NO	N-Isobutyldodecanamide	2.5-14.5 μ	S	Freq, Spec	Crombie	JCS	- (1952)	2997
C ₁₆ H ₃₃ NO ₂	Palmitohydroxamic acid	700-4000	S, Sol	Spec, H bond	Hadzi	SA	10 (1958)	38
C ₁₆ H ₃₃ NO ₃	Diethylene glycol di-cyclohexylamine adduct	1000-3750	S	H bond	Nakagawa	BCSJ	33 (1960)	433
C ₁₆ H ₃₃ NO ₃	Dicyclohexylamine-1,2,4-butanetriol adduct	1000-3750	S	H bond	Nakagawa	BCSJ	33 (1960)	433
C ₁₆ H ₃₃ NO ₃	Myristic acid acetamide	2-12 μ	S, Sol	Assign, Spec	O'Connor	JACS	77 (1955)	892
C ₁₆ H ₃₃ NO ₃	n-Hexadecyl nitrate	2-15 μ	Sol	Spec, Struct	Carrington	SA	16 (1960)	1279
C ₁₆ H ₃₄	i-Hexadecane	1150-1650	-	Spec	Barnes	IEC	15 (1943)	659
C ₁₆ H ₃₄	n-Hexadecane	2-14 μ	L	Absorption, Spec	Ellis	PR	27 (1926)	298
		-	-	Anal	Rosenbaum	JCP	9 (1941)	295
		8000-9000	Sol	Anal, Group study	Hibbard	AC	21 (1949)	486
		-	-	Freq	Mizushima	JACS	71 (1949)	1320
		-	-	Selection rules	Simanouti	JCP	17 (1949)	1102
		720	Sol	Optical density	Philpotts	AC	23 (1951)	268
		3.4 μ	Sol	Anal	Simard	AC	23 (1951)	1384
		350-700	-	Group anal, Absorption	Hastings	AC	24 (1952)	612
		13.8 μ	L	Table, Freq	Donnaud	CPR	239 (1954)	1480
		.9-3 μ	S	Freq	Stein	JCP	22 (1954)	1993
		700-3000	Sol	Spec	Holman	AC	28 (1956)	1533
		650-800	Sol	Correlation	Jones	SA	9 (1957)	235
		15-35 μ	S	Freq shift	Martin	SA	12 (1958)	12
			S	Spec, Struct, Correlation	Bentley	SA	15 (1959)	165
C ₁₆ H ₃₄ N ₂ O	2-Azoxy-2,5-dimethylhexane	1250-1600	L	Spec, Band freq, Struct	Langley	JCS	- (1951)	2309
		-	L	Group freq, Struct	Langley	JCS	- (1951)	4101

$C_{16}H_{34}O$	Cetyl alcohol	2.5-3.9 μ 2.7-2.95 μ 2-3.5 μ	Sol Sol -	Spec H bond H bond	Fox Davies Davies	PRS JCP JCP	162 (1937) 6 (1938) 8 (1940)	419 767 577
		-	-	Force constant	Richard	TFS	44 (1948)	40
		1100-1400	S	Spec	Jones	JACS	74 (1952)	2575
		700-1700	L,S	Spec	Neuilly	CPR	238 (1954)	65
		.9-3 μ	Sol	Spec	Holman	AC	28 (1956)	1533
		3570-3700	Sol	Freq, Correlation	Flynn	AJC	12 (1959)	575
		700-1500	L	Temp. effect	Hashikuni	JPSJ	15 (1960)	941
$C_{16}H_{34}S$	n-Hexadecyl mercaptan	-	Sol	Freq	Pozefsky	AC	23 (1951)	1611
$C_{16}H_{35}NO_2$	Dodecylammonium butyrate	1600-1750	Sol	Band assign	Kitahara	BCSJ	31 (1958)	653
$C_{16}H_{35}OP$	bis-2-Ethylhexyl hydrogen phosphate	670-3500 500-4000	- Sol,L	Spec, H bond	Bellamy Peppard	JCS JINC	- 7 (1958)	728 231
$C_{16}H_{35}O_2B$	Diborane ethylene oxide polymer	-	S	Spec	Stone	JCS	- (1950)	2755
$C_{16}H_{36}OSi$	Trimethylsilylnonyl butyl ether	-	-	Inductive effect	Josien	CPR	249 (1959)	826
$C_{16}H_{36}OSi$	Trimethylsilylundecyl ethyl ether	-	-	Inductive effect	Josien	CPR	249 (1959)	826
$C_{16}H_{36}O_2Si$	Tetra-t-butoxysilane	-	-	Group freq	Hyde	JACS	77 (1955)	3140
$C_{16}H_{36}O_4Si$	Silicon butoxide	-	-	Spec assign	Kriegmann	ZE	62 (1958)	1163
$C_{16}H_{36}O_7P_2$	Tetra-n-butyl pyrophosphate	2-11 μ - -	L - -	Spec, Anal Group freq Group freq	Daasch Bergmann Bell	AC JCS JACS	23 (1951) - (1952) 76 (1954)	853 847 5185
$C_{16}H_{36}Si$	Di-n-octylsilane	2-16 μ	Sol	Freq	Kniseley	SA	15 (1959)	651
$C_{16}H_{40}O_4Si_4$	Octaethylcyclotetra-siloxane	2-16 μ 2-16 μ	Sol Sol	Spec Freq, Spec	Young Smith	JACS SA	70 (1948) 16 (1960)	3758 87

$C_{16}H_{40}O_{10}Si_3$	Octaethoxytrisiloxane	600-3500	L	Spec	Okawara	BCSJ	31 (1958)	154	
$C_{16}H_{40}O_{12}Si_4$	Octaethoxycyclo-tetra-siloxane	600-3500	L	Spec	Okawara	BCSJ	31 (1958)	154	
$C_{16}H_{42}O_9Si_4$	Tetramethylhexaacetoxy tetrasiloxane	600-3500	L	Spec	Okawara	BCSJ	31 (1958)	154	
$C_{16}H_{48}N^P_{12}$	Dimethylamino derivative of tetrameric phosphonitrilic acid	1150-1350	-	Freq, Shift, Struct	Shaw	CIL	- (1959)	54	
$C_{16}H_{48}O_6Si_7$	Hexadecamethylhepta-siloxane	2.5-14/ μ 400-1100	Sol -	Spec Spec	Wright Kriegsmann	JACS ZE	69 (1947) 64 (1960)	803 541	
$C_{16}H_{48}O_8Si_8$	Hexadecamethylcyclo-octasiloxane	2.5-14/ μ	Sol	Spec	Wright	JACS	69 (1947)	803	
<u>C₁₇ COMPOUNDS</u>									
$C_{17}H_9Cl_3OS$	Naphthylthio 2,3,6-trichlorobenzoate	2.5-16/ μ	Sol	Struct, Freq	Nyquist	SA	15 (1959)	514	
$C_{17}H_9NO_4$	5,10-Dihydro-5-oxo-10-acridinylmaleic anhydride	-	S	Band freq	Acheson	JCS	- (1954)	3240	
$C_{17}H_9NS$	3-Pyrenyl isothio-cyanate	600-4000	S	Spec	Ham	SA	16 (1960)	279	
$C_{17}H_{10}D^O_4$	3,4-Diphenylcyclopent-2-ene-1-one-2,4,5,5-d ₄	-	Sol, S	Freq, Spec	Yates	JACS	80 (1958)	5896	
$C_{17}H_{10}F^O_{22}$	1,5-Pentanediol bis-undecafluorocaproate	-	L	Group freq	Rappaport	JACS	75 (1953)	2695	

$C_{17}H_{10}O$	Benzanthrone	-	-	Group freq	Hadzi	JACS	73 (1951)	5460
$C_{17}H_{11}BrOS$	Naphthylthio m-bromo- benzoate	2.5-16 μ	Sol	Struct, Freq	Nyquist	SA	15 (1959)	514
$C_{17}H_{11}BrOS$	Naphthylthio o-bromo- benzoate	2.5-16 μ	Sol	Struct, Freq	Nyquist	SA	15 (1959)	514
$C_{17}H_{11}BrOS$	Naphthylthio p-bromo- benzoate	2.5-16 μ	Sol	Struct, Freq	Nyquist	SA	15 (1959)	514
$C_{17}H_{11}BrO_3$	4-Bromo-3-keto-1,2, 3,10b-tetrahydro- fluoranthene-1- carboxylic acid	2900-3500	Sol	Spec, Freq	Weizmann	JOC	16 (1951)	1851
$C_{17}H_{11}BrO_3$	9-Bromo-3-keto-1,2, 3,10b-tetrahydro- fluoranthene-1- carboxylic acid	2900-3500	Sol	Spec, Freq	Weizmann	JOC	16 (1951)	1851
$C_{17}H_{11}ClOS$	Naphthylthio o- chlorobenzoate	2.5-16 μ	Sol	Struct, Freq	Nyquist	SA	15 (1959)	514
$C_{17}H_{11}ClOS$	Naphthylthio p- chlorobenzoate	2.5-16 μ	Sol	Struct, Freq	Nyquist	SA	15 (1959)	514
$C_{17}H_{11}FOS$	Naphthylthio o- fluorobenzoate	2.5-16 μ	Sol	Struct, Freq	Nyquist	SA	15 (1959)	514
$C_{17}H_{11}IOS$	Naphthylthio m-iodo- benzoate	2.5-16 μ	Sol	Struct, Freq	Nyquist	SA	15 (1959)	514
$C_{17}H_{11}IOS$	Naphthylthio o-iodo- benzoate	2.5-16 μ	Sol	Struct, Freq	Nyquist	SA	15 (1959)	514
$C_{17}H_{11}IOS$	Naphthylthio p-iodo- benzoate	2.5-16 μ	Sol	Struct, Freq	Nyquist	SA	15 (1959)	514
$C_{17}H_{11}N$	1-Azadibenz [bf] azulene	-	-	Band freq	Muth	JACS	77 (1955)	1006

Chemical	Wavenumber	Assignment	Author	Year	Page
C ₁₇ H ₁₁ N	-	1-Azadibenz [bh] azulene	Muth	77 (1955)	1006
C ₁₇ H ₁₁ NO ₃	2.5-16 μ	Naphthylthio m-nitrobenzoate	Nyquist	15 (1959)	514
C ₁₇ H ₁₁ NO ₃	2.5-16 μ	Naphthylthio p-nitrobenzoate	Nyquist	15 (1959)	514
C ₁₇ H ₁₁ NO ₄	1250-1800	Benzotropolone p-nitrophenyl ether	Tarbell	72 (1950)	379
C ₁₇ H ₁₂	670-3150	1,2-Benzfluorene	Orr	- (1950)	218
C ₁₇ H ₁₂	670-3150 670-2010	3,4-Benzfluorene	Orr Cannon	- (1950) 4 (1951)	218 373
C ₁₇ H ₁₂	1375-1530	Methylpyrene	Moritz	16 (1960)	74
C ₁₇ H ₁₂ Br ₂ O ₄	-	2,3-Dibromo-1,2,3,4-tetrahydro-9,10-dime-thoxy-2,3-methylene-1,4-dioxoanthracene	Sorrie	- (1955)	2238
C ₁₇ H ₁₂ N ₂	3 μ	5-Amino-1,2-benzacridine	Mason	- (1959)	1281
C ₁₇ H ₁₂ N ₂	3 μ	5-Amino-2,3-benzacridine	Mason	- (1959)	1281
C ₁₇ H ₁₂ N ₂	3 μ	5-Amino-3,4-benzacridine	Mason	- (1959)	1281
C ₁₇ H ₁₂ N ₂	3 μ	7-Amino-1,2-benzacridine	Mason	- (1959)	1281
C ₁₇ H ₁₂ N ₂	3 μ	7-Amino-2,3-benzacridine	Mason	- (1959)	1281
C ₁₇ H ₁₂ N ₂	3 μ	7-Amino-3,4-benzacridine	Mason	- (1959)	1281
C ₁₇ H ₁₂ N ₂	3 μ	8-Amino-1,2-benzacridine	Mason	- (1959)	1281
C ₁₇ H ₁₂ N ₂	3 μ	8-Amino-3,4-benzacridine	Mason	- (1959)	1281

$C_{17}H_{12}N_2O$	1-Benzoyl-1,2-dihydro-quinaldonitrile	-	-	Ident, Freq	McEwen	CR	55 (1955)	511
$C_{17}H_{12}N_2O$	1,2-Dihydro-1-methyl-2-oxoquinolino (3':2-3:4)quinoline	-	-	Freq	Braunholtz	JCS	- (1955)	381
$C_{17}H_{12}N_2O_2$	1,4'-Dihydroquinolino (3':2',3:4)quinoline-4'-carboxylic acid	-	-	Freq	Braunholtz	JCS	- (1955)	381
$C_{17}H_{12}N_2O_2.HCl$	1,4'-Dihydroquinolino (3':2'-3:4)quinoline-4'-carboxylic acid hydrochloride	-	-	Freq	Braunholtz	JCS	- (1955)	381
$C_{17}H_{12}N_2O_4$	α -Phenylpyridine picrate	-	-	Ident	Entel	JACS	77 (1955)	611
$C_{17}H_{12}N_2O_4$	β -Phenylpyridine picrate	-	-	Ident	Entel	JACS	77 (1955)	611
$C_{17}H_{12}N_2O_4$	γ -Phenylpyridine picrate	-	-	Ident	Entel	JACS	77 (1955)	611
$C_{17}H_{12}O$	α -Naphthyl phenyl ketone	-	-	Group freq	Pickard	JACS	76 (1954)	5169
$C_{17}H_{12}OS$	Naphthylthio benzoate	2.5-16 μ	Sol	Struct, Freq	Nyquist	SA	15 (1959)	514
$C_{17}H_{12}OS$	Phenylthio α -naphthoate	2.5-16 μ	Sol	Struct, Freq	Nyquist	SA	15 (1959)	514
$C_{17}H_{12}OS$	Phenylthio β -naphthoate	2.5-16 μ	Sol	Struct, Freq	Nyquist	SA	15 (1959)	514

$C_{17}H_{12}O_2$	1-Benzoylnaphthol-2	-	Sol	H bond	Hilbert	JACS	58 (1936)	548
$C_{17}H_{12}O$	Benzotropolone phenyl ether	1250-1800	Sol	Table	Tarbell	JACS	72 (1950)	379
$C_{17}H_{12}O_2$	4,8-Dihydrocyclohepta [def] fluorene-9-carboxylic acid	-	S	Freq	Reid	JCS	- (1955)	1193
$C_{17}H_{12}O_2S$	Naphthyl thiosalicylate	2.5-16 μ	Sol	Struct, Freq	Nyquist	SA	15 (1959)	514
$C_{17}H_{12}O_5$	Dimethyl fluorenone-1,7-dicarboxylate	-	-	Ident	Mullholland	JCS	- (1954)	4676
$C_{17}H_{12}O_7$	5,7-Dihydroxy-3-methoxy-3,4-methylenedioxy flavone	700-5000	S	Freq	Briggs	AC	29 (1957)	904
$C_{17}H_{13}Cl_2NO$	2-[[β -Hydroxy- β -(2,4-dichlorophenyl)ethyl]quinoline	-	S	Spec	Bahner	JACS	74 (1952)	3932
$C_{17}H_{13}Cl_2NO$	2-[[β -Hydroxy- β -(2,6-dichlorophenyl)ethyl]quinoline	-	S	Spec	Bahner	JACS	74 (1952)	3932
$C_{17}H_{13}Cl_2NO$	2-[[β -Hydroxy- β -(3,4-dichlorophenyl)ethyl]quinoline	-	S	Spec	Bahner	JACS	74 (1952)	3932
$C_{17}H_{13}C_2NO_2$	N α -Di-p-chlorobenzylideneglycine methyl ester	978-1092	Sol	Group freq	Bergmann	JCS	- (1953)	2564
$C_{17}H_{13}N$	α -Naphthyl phenyl ketimine	-	-	Freq	Pickard	JACS	76 (1954)	5169
$C_{17}H_{13}NO$	N- α -Naphthylbenzamide	3 μ	Sol	Freq	Russell	SA	8 (1956)	138

$C_{17}H_{13}NO_2$	4'-Cyano-4-methoxy-chalcone	-	-	Struct, Freq	Rorig	JACS 75 (1953)	5381
$C_{17}H_{13}NO_3$	β -Methylnaphthalene picric acid complex	3-13 μ	S	Freq assign	Kross	SA 8 (1956)	142
$C_{17}H_{14}$	1,2-Cyclopentenophenanthrene	670-3150	S	Spec, Band freq	Orr	JCS - (1950)	218
$C_{17}H_{14}$	1,2-Cyclopentano-phenanthrene	650-2000	S	Struct	Cannon	SA 4 (1951)	373
$C_{17}H_{14}$	8-Methyl-8-phenylbenzofulvene	660-4000	Sol	Spec	Wood	AC 30 (1958)	1339
$C_{17}H_{14}N_2$	1,2-Dihydro-1-methylquinolino	-	-	Freq	Braunholtz	JCS - (1955)	381
$C_{17}H_{14}N_2 \cdot HCl$	(3:2-3:4)quinoline 1,2-Dihydro-1-methylquinolino(3:2-3:4) quinoline hydrochloride	2800-3000	S	Group detection	Braunholtz	JCS - (1958)	2780
$C_{17}H_{14}N_2$	1,4'-Dihydro-1-methylquinolino(3:2-3:4) quinoline	-	-	Band freq	Braunholtz	JCS - (1955)	381
$C_{17}H_{14}NO$	1-Benzoylnaphthol-2-hydrazone	6200-7100	Sol	Spec, H bond	Hendricks	JACS 58 (1936)	1991
$C_{17}H_{14}NO$	1-Phenylazo-2-naphthol-O-methyl derivative	-	S, Sol	Struct, Assign	Hadzi	JCS - (1956)	2143
$C_{17}H_{14}NO$	2-Phenylazo-1-naphthol-O-methyl derivative	-	S, Sol	Struct, Assign, Spec	Hadzi	JCS - (1956)	2143
$C_{17}H_{14}NO_2$	β -(3-Indolemethyl)- β -nitrostyrene	-	S, Sol	Group freq	Noland	JACS 76 (1954)	3227

Chemical Formula	Compound Name	Wavenumber (μ)	State (S)	Measurement Type	Author	Journal	Volume	Year	Page
C ₁₇ H ₁₄ N ₂ O ₄	3-Carboxanilidomethyl-5-phenyl-2,4-oxazolinedione	2-11 μ	S	Spec	Sheehan	JACS	73	(1951)	4752
C ₁₇ H ₁₄ N ₂ O ₄	α-(2'-Nitro-4',5'-dimethoxyphenyl)-β-phenylacrylonitrile	-	Sol	Freq	Walker	JACS	77	(1955)	3844
C ₁₇ H ₁₄ N ₂ O ₅	1-(4-Methoxyphenyl)-5-(4-nitrophenyl)-2,3-pyrrolidinedione	2-16 μ	Sol	Spec, Freq	Vaughan	JOC	18	(1953)	382
C ₁₇ H ₁₄ N ₂ O ₅	5-(4-Methoxyphenyl)-1-(4-nitrophenyl)-2,3-pyrrolidinedione	2-16 μ	Sol	Spec, Freq	Vaughan	JOC	18	(1953)	382
C ₁₇ H ₁₄ N ₂ O ₅ S	5-Carboxymethyl-3-(phenyl-p-azo-phenyl)-2-thiohydantoin	600-4000	S	Spec, Ident	Epp	AC	29	(1957)	1283
C ₁₇ H ₁₄ N ₂ O ₄	Benzosuber-2-en-1-one 2,4-dinitrophenylhydrazone	-	Sol	Freq	Ramirez	JACS	75	(1953)	6026
C ₁₇ H ₁₄ N ₂ O ₆	2-Acetoxy-1-indanone-syn-2,4-dinitrophenylhydrazone	-	Sol	Freq	Ramirez	JACS	75	(1953)	6026
C ₁₇ H ₁₄ N ₂ O ₆	DNP-L-Tryptophan	625-5000	S	Spec, Ident	Friedberg	CJC	37	(1959)	1469
C ₁₇ H ₁₄ N ₂ O ₈	1,2-Cyclopentanedione 2,4-dinitrophenylsazone	-	S	Freq	Ramirez	JACS	76	(1954)	491
C ₁₇ H ₁₄ O	3,4-Diphenyl-2-cyclopenten-1-one	-	S, Sol	Band study	Yates	JACS	80	(1958)	5896

$C_{17}H_{14}O$	2-Methyl-2-keto-dibenzo [2,2,2] bicyclooctadiene	2-15 μ	S	Spec	Vaughan	JACS	74 (1952)	5626
$C_{17}H_{14}O_2$	2,3-Dibenzoylpropene	2-16 μ	Sol	Spec, Ident	Bailey	JACS	73 (1951)	5560
$C_{17}H_{14}O_2$	9,10-Dihydrophenanthrene [9,10,3:2] cyclopropane -1-carboxylic acid methyl ester	-	S	Freq	Reid	JCS	- (1955)	1193
$C_{17}H_{14}O_2$	3,4-Diphenyl-4-hydroxy- Δ^2 -cyclopentenone	1600-1800	Sol	Freq	Fuson	JACS	76 (1954)	2526
$C_{17}H_{14}O_2$	cis-Methyldibenzoyl-ethylene	6.06-14.5 μ 2-16 μ	S Sol	Freq Spec, Ident	Kuhn Bailey	JACS JACS	72 (1950) 73 (1951)	5058 5560
$C_{17}H_{14}O_2$	trans-Methyldibenzoyl-ethylene	6.05-14.5 μ 2-16 μ	S Sol	Freq Spec, Ident	Kuhn Bailey	JACS JACS	72 (1950) 73 (1951)	5058 5560
$C_{17}H_{14}O_3$	2,3-Dibenzoyl-2-propen-1-ol	-	-	Ident, Struct	Bailey	JACS	76 (1954)	2249
$C_{17}H_{14}O_3$	2-Methyl-3-benzoxyindone	-	-	Spec	Bergmann	BSCF	- (1959)	634
$C_{17}H_{14}O_4$	3,7-Difurfurylidene-1,2-cycloheptanedione	-	S	Group freq	Leonard	JACS	75 (1953)	4989
$C_{17}H_{14}O_4$	3',4'-Dimethoxyflavone	.	Sol	Group freq	Shaw	JCS	- (1955)	655
$C_{17}H_{14}O_4$	7,3'-Dimethoxyflavone	-	Sol	Group freq	Shaw	JCS	- (1955)	655
$C_{17}H_{14}O_4$	7,4'-Dimethoxyflavone	-	Sol	Group freq	Shaw	JCS	- (1955)	655
$C_{17}H_{14}O_4$	1,3-Dimethoxy-2-methyl-anthraquinone	2-15 μ	S	Freq, Assign, Ident	Bloom	JCS	- (1959)	178

$C_{17}H_{14}O_5$	1,3-Dimethoxy-2-hydroxymethylanthraquinone	2-15 μ 2-15 μ	- S	Briggs Bloom	JCS JCS	- -	(1953) (1959)	3068 178
$C_{17}H_{14}O_5$	3-Hydroxy-3',4'-dime thoxyflavone	-	Sol	Shaw	JCS	-	(1955)	655
$C_{17}H_{14}O_5$	3-Hydroxy-7,3'-dime thoxyflavone	-	Sol	Shaw	JCS	-	(1955)	655
$C_{17}H_{14}O_5$	3-Hydroxy-7,4'-dime thoxyflavone	-	Sol	Shaw	JCS	-	(1955)	655
$C_{17}H_{14}O_5$	5-Hydroxy-7,3'-dime thoxyflavone	-	Sol	Shaw	JCS	-	(1955)	655
$C_{17}H_{14}O_5$	1,2,3-Trime thoxy-anthraquinone	2-15 μ	Sol S	Wiles Bloom	JCS JCS	- -	(1956) (1959)	4811 178
$C_{17}H_{14}O_5$	1,2,4-Trime thoxy-anthraquinone	-	Sol	Wiles	JCS	-	(1956)	4811
$C_{17}H_{14}O_5$	1,2,7-Trime thoxy-anthraquinone	-	Sol	Wiles	JCS	-	(1956)	4811
$C_{17}H_{14}O_5$	1,4,5-Trime thoxy-anthraquinone	-	Sol	Wiles	JCS	-	(1956)	4811
$C_{17}H_{14}O_6$	1,3-Dihydroxy-2,5-dime thoxy-6-methyl-anthraquinone	2-15 μ	S	Bloom	JCS	-	(1959)	178
$C_{17}H_{14}O_6$	1,5-Dihydroxy-2,3-dime thoxy-6-methyl-anthraquinone	2-15 μ	S	Bloom	JCS	-	(1959)	178
$C_{17}H_{14}O_7$	Dimethyl repandulinate	-	S	Bick	JCS	-	(1953)	692

$C_{17}H_{15}BrNO_4$	2-Bromobenzoaserone anti-2,4-dinitro- phenylhydrazone	-	Sol	Band freq	Ramirez	JACS 75 (1953)	6026
$C_{17}H_{15}FNO_2$	4,4'-Diacetamido-3- trifluoromethyl-di- phenyl	-	-	Freq	Randle	JCS - (1955)	1311
$C_{17}H_{15}N$	N-Benzyl-1-naphthyl- amine	3300-3500	S, Sol	Freq, Config.	Moritz	SA 16 (1960)	1176
$C_{17}H_{15}N$	1,4,5,6-Tetrahydro-1- azadibenz [bh] azulene	-	Sol	Freq	Muth	JACS 77 (1955)	1006
$C_{17}H_{15}N$	1,4,7,8-Tetrahydro-1- azadibenz [bf] azulene	-	Sol	Freq	Muth	JACS 77 (1955)	1006
$C_{17}H_{15}NO$	β -Benzoyl- α -o-tolyl- propionitrile	-	-	Freq	Potts	JCS - (1955)	2466
$C_{17}H_{15}NO$	2-[β -Hydroxy- β - phenylethyl]quinoline	-	S	Spec	Bahner	JACS 74 (1952)	3932
$C_{17}H_{15}NO_2$	7-Methoxy-1-methyl-2- phenyl-4-quinolone	1450-4000	S	Spec, Freq	Price	AJC 12 (1959)	589
$C_{17}H_{15}NO_2$	7-Methoxy-1-methyl-3- phenyl-4-quinolone	1450-4000	S	Spec, Freq	Price	AJC 12 (1959)	589
$C_{17}H_{15}NO_2$	8-Morpholinoperi- naphthenone-7	1099-3045	S	Table	Cromwell	JACS 73 (1951)	1226
$C_{17}H_{15}NO_2$	9-Morpholinoperi- naphthenone-7	1114-3045	S	Table	Cromwell	JACS 73 (1951)	1226
$C_{17}H_{15}NO_3$	5-Benzoyloxyindole- 3-acetic acid	2.84-7.79 μ	Sol	Group freq, I	Ek	JACS 76 (1954)	5579
$C_{17}H_{15}NO_3$	7-Benzoyloxyindole- 3-acetic acid	-	S	Group freq	Ek	JACS 76 (1954)	5579

$C_{17}H_{15}NO_3$	2-16 μ	Sol	Spec, Freq	Vaughan	JOC	18 (1953)	382
$C_{17}H_{15}NO_3$	2-16 μ	Sol	Spec, Freq	Vaughan	JOC	18 (1953)	382
$C_{17}H_{15}NO_3$	700-1950	-	Spec	Mackie	JCS	- (1949)	1315
$C_{17}H_{15}NO_3$	700-1950	-	Spec	Mackie	JCS	- (1949)	1315
$C_{17}H_{15}NO_4$	-	Sol	Spec, Freq	Witkop	JACS	74 (1952)	3861
$C_{17}H_{15}NO_4$	-	Sol	Spec, Freq	Witkop	JACS	74 (1952)	3861
$C_{17}H_{15}NO_5$	-	S	Freq	Momose	CPBT	6 (1958)	412
$C_{17}H_{15}NO$	-	-	Group freq	Potts	JCS	- (1954)	3461
$C_{17}H_{15}NO_3$	-	-	Group freq, Ident	Baker	JOC	20 (1955)	118
$C_{17}H_{15}N_2O_5$	600-4000	S	Spec, Ident	Epp	AC	29 (1957)	1283

$C_{17}H_{16}$	1-Ethyl-2-methyl-phenanthrene	700-4000	S	Spec	Mossettig	JOC	20 (1955)	884
$C_{17}H_{16}ClNO_3$	Methyl- α -benzamido- β -chloro- β -phenylpropionate	-	Sol	Struct, Group freq	Bergmann	JCS	- (1951)	2673
$C_{17}H_{16}Cl_2O_3$	bis-(1-Phenyl-2-chloroethyl carbonate)	-	S	Struct, Freq	Hales	JCS	- (1957)	618
$C_{17}H_{16}INO_2$	Anhydroglycorine methiodide	-	-	Ident	Hember	JCS	- (1954)	4622
$C_{17}H_{16}N_2O_2$	5-Benzoyloxyindole- β -acetamide	2.85-6.73 μ	Sol	Band freq, I	Ek	JACS	76 (1954)	5579
$C_{17}H_{16}N_2O_2$	7-Benzoyloxyindole- β -acetamide	-	Sol	Band freq	Ek	JACS	76 (1954)	5579
$C_{17}H_{16}N_2O_2$	1-Methyl- β -(1-phenyl-2-nitroethyl)indole	-	S	Freq	Noland	JACS	81 (1959)	1203
$C_{17}H_{16}N_2O_2$	2-Methyl- β -(1-phenyl-2-nitroethyl)indole	-	S	Freq	Noland	JACS	81 (1959)	1203
$C_{17}H_{16}N_2O_2$	3-(1-Phenyl-2-nitropropyl)indole	-	S,Sol	Freq	Noland	JACS	77 (1955)	456
$C_{17}H_{16}N_2O_2$	2-Phenyltryptophan	-	S	Group freq	Kissman	JACS	75 (1953)	1967
$C_{17}H_{16}N_2O_5$	Methyl phthalimido-penicillanate	-	-	Freq	Sheehan	JACS	75 (1953)	3292
$C_{17}H_{16}NO$	1-Phenyl- β -methyl-4-m-methylphenylazo-5-pyrazolone	-	Sol	Spec, Struct	Toda	NKZ	80 (1959)	402
$C_{17}H_{16}NO$	1-Phenyl- β -methyl-4-p-methylphenylazo-5-pyrazolone	-	Sol	Spec, Struct	Toda	NKZ	80 (1959)	402

$C_{17}H_{16}N_2O_4S$	600-4000	S	Spec, Ident	Epp	AC	29 (1957)	1283
5- α -Hydroxyethyl-3-(phenyl-p-azophenyl) 2-thiohydantoin	-	Sol	Band freq	Ramirez	JACS	75 (1953)	6026
Benzosuberone anti-2,4-dinitrophenylhydrazone	-	Sol	Band freq	Ramirez	JACS	75 (1953)	6026
Benzosuberone syn-2,4-dinitrophenylhydrazone	-	S	Freq	Henbest	JCS	- (1952)	4536
3-Methoxy-1-phenylbut-2-en-1-one-2,4-dinitrophenylhydrazone	-	Sol	Band freq	Ramirez	JACS	75 (1953)	6026
3- β -Aminoethyl-1-methyl-1,2,4-triazole dipicrate	-	-	Ident	Ainsworth	JACS	77 (1955)	621
3- β -Aminoethyl-4-methyl-1,2,4-triazole dipicrate	-	-	Iso, Ident	Ainsworth	JACS	77 (1955)	621
5- β -Aminoethyl-1-methyl-1,2,4-triazole dipicrate	-	-	Ident, Iso	Ainsworth	JACS	77 (1955)	621
1-Benzylcyclopropyl phenyl ketone	-	Sol	Band freq, I	Piehl	JACS	75 (1953)	5023
cis-3,4-Diphenylcyclopentanone	-	Sol	Freq	Yates	JACS	80 (1958)	5896
α -Ethylbenzalacetophenone oxide	1600-1800	Sol	Freq, Struct, Iso	House	JACS	80 (1958)	6389

$C_{17}H_{16}O_2$	13- α -Furyl-2,4,6,8, 10,12-tridecahexaenal	1400-2000	S	Spec	Blout	JACS	70 (1948)	194
$C_{17}H_{16}O_2$	Methyldibenzoylthane	6.00-14.5 μ	S	Table	Kuhn	JACS	72 (1950)	5058
$C_{17}H_{16}O_2S$	9-(9-Allylfluorenyl) methyl sulfone	1100-1400	Sol	Spec, Freq	Bavin	SA	16 (1960)	1312
$C_{17}H_{16}O_3$	Ethyl β , β -diphenyl- glycidate	1600-1800	Sol	Freq, Assign, Struct	House	JACS	80 (1958)	6389
$C_{17}H_{16}O_4$	Dibenzyl malonate	-	Sol	Ident	Kissman	JACS	75 (1953)	1967
$C_{17}H_{16}O_4$	7,4'-Dimethoxyflavanone	-	Sol	Group freq	Shaw	JCS	- (1955)	655
$C_{17}H_{16}O_4$	7,4'-Dimethoxyiso- flavanone	-	Sol	Struct	Bradbury	JCS	- (1953)	871
$C_{17}H_{16}O_6$	2-Acetoxy-3-oarbethoxy- 1-naphthaleneacetic acid	-	-	Band freq	Tarbell	JACS	76 (1954)	5761
$C_{17}H_{16}O_6S$	4-Diacetoxymethyl phenyl sulfone	-	S,Sol	Freq	Momose	CPBT	6 (1958)	412
$C_{17}H_{16}O_8$	Terracinoic acid diacetate	-	Sol	Freq	Pasternack	JACS	74 (1952)	1928
$C_{17}H_{16}Si$	Methylphenyl- α - naphthylsilane	2-16	Sol	Freq	Kniseley	SA	15 (1959)	651
$C_{17}H_{17}BrO_6$	7-Bromo-4,6,2'- trime thoxy-6'- methylgris-2'-ene- 3,4'-dione	-	S	Band freq	MacMillan	JCS	- (1954)	2585

1952 1953 1954 1955 1956 1957

$C_{17}H_{17}ClO_6$	Griseofulvin	700-1900	-	Spec Struct	Grove Grove	JCS JCS	- -	(1952) (1952)	3949 3958
		-	S	Struct	Grove	JCS	-	(1952)	3977
		700-1850	S	Spec	Mulholland	JCS	-	(1952)	3987
$C_{17}H_{17}ClO_6$	Isogriseofulvin	700-1900	-	Spec Struct	Grove Grove	JCS JCS	- -	(1952) (1952)	3949 3977
$C_{17}H_{17}NO$	trans-1-Methyl-2-phenyl-3-p-tolyloethyleneimine	2-16 μ	S,Sol	Spec, Freq	Cromwell	JACS	73	(1951)	1044
$C_{17}H_{17}NO$	1-Phenyl-3-benzylamino-2-buten-1-one	650-3800	S	Table	Cromwell	JACS	71	(1949)	3337
$C_{17}H_{17}NO_2$	N-Benzyl- β -benzoylpropionamide	700-4000	S,Sol	Assign, Struct, Taut	Cromwell	JACS	80	(1958)	4573
$C_{17}H_{17}NO_2$	3-Benzyl-5,6-dimethoxyindole	-	Sol	Freq	Walker	JACS	77	(1955)	3844
$C_{17}H_{17}NO_3$	N-(α -Acetoxybenzyl)acetanilide	-	-	Spec, Struct, Freq Struct, Freq	Burgstahler Snyder	JACS JACS	73 73	(1951) (1951)	302 1836
$C_{17}H_{17}NO_3$	Benzyl α -phenylsuccinamate	2-8 μ	Sol	Spec, Freq	Sheehan	JACS	74	(1952)	4555
$C_{17}H_{17}NO_4$	1,2,3,4-Tetrahydro-7-methoxy-4-oxo-1-toluene-p-sulphonylquinoline	600-1700	S	Spec, Struct	Braunholtz	JCS	-	(1957)	4166
$C_{17}H_{17}NO_7$	3,4,5-Trimethoxybenzyl alcohol p-nitrobenzoate	-	-	Ident Struct	Neuss Neuss	JACS JACS	75 76	(1953) (1954)	4870 2463
$C_{17}H_{18}$	1,1-Dimethyl-2,3-diphenylcyclopropane	3-14 μ	L	Spec	Bridson	JCS	-	(1951)	3009
$C_{17}H_{18}$	p,p'-Trimethylene-1,2-diphenylethane	3-12 μ	Sol	Spec	Cram	JACS	73	(1951)	5691

$C_{17}H_{18}$	2,4,6-Trimethyl- stilbene	5-15 μ	S	Speco, Freq	Thompson	JCS - (1950)	214
$C_{17}H_{18}$	2,4,6-Trimethyl-trans- stilbene	960	Sol	Band study	Orr	SA 8 (1956)	218
$C_{17}H_{18}F_{14}O_4$	bis-2,2,3,3,4,4,4- Heptafluorobutyl azelate	-	L	Group freq	Rappaport	JACS 75 (1953)	2695
$C_{17}H_{18}INO_2$	2-Phenyl-N-piperonyl- lideneethylamine methiodide	-	Sol	Group freq	Goulden	JCS - (1953)	997
$C_{17}H_{18}N_2$	3-Durylisoindazole	-	-	Group freq	Fuson	JACS 74 (1952)	162
$C_{17}H_{18}N_2$	2-Methyl-3-(1-phenyl- 2-aminoethylindole)	-	S	Freq	Noland	JACS 81 (1959)	1203
$C_{17}H_{18}N_2O$	1-(N-Benzylidene)-3- (N-salicylidene) propyldiamine	-	L, Sol	H bond, Freq	Reeves	CJC 38 (1960)	1249
$C_{17}H_{18}N_2O_2$	N-Acetyl-N'-benzoyl- N,N'-dimethyl-o- phenylenediamine	2-15 μ	Sol	Freq, Struct	Smith	JACS 71 (1949)	1082
$C_{17}H_{18}N_2O_3$	p-Nitrobenzyl-d- methamphetamine	650-4000	-	Spec	Chatten	AC 31 (1959)	1581
$C_{17}H_{18}N_2O_4$	3,5-Diacetyl-2,6- dimethyl-4-o-nitro- phenyl-1,4-dihydro- pyridine	-	S	Freq	Berson	JACS 77 (1955)	444
$C_{17}H_{18}N_2O_4$	3,5-Diacetyl-2,6- dimethyl-4-p-nitro- phenyl-1,4-dihydro- pyridine	-	S	Freq	Berson	JACS 77 (1955)	444

$C_{17}H_{18}O_2S$	9-(9-Isopropyl-fluorenyl)methyl sulfone	1100-1400	Sol	Spec, Freq	Bavin	SA	16 (1960)	1312
$C_{17}H_{18}O_3$	Formyldeoxybenzoin dimethyl acetal	-	Sol	Group freq, I	Russell	JACS	76 (1954)	5714
$C_{17}H_{18}O_3S$	Dibenzyl ketone ethylene hemithio-ketal sulfone	-	Sol	Group freq	Djerassi	JACS	75 (1953)	3704
$C_{17}H_{18}O_4$	1-Acetoxy-9-methyl-9-hydroxy-1,4-11,12-tetrahydroanthrone	-	-	Spec	Inhoffen	CCA	29 (1957)	329
$C_{17}H_{18}O_5$	2-Hydroxy-3-carbetoxy-1-naphthaleneacetic acid ethyl ester	-	-	Ident	Marbell	JACS	76 (1954)	5761
$C_{17}H_{18}O_5$	1-Acetoxy-5,9-dihydroxy-9-methyl-1,4,11,12-tetrahydroanthrone	-	-	Spec	Inhoffen	CCA	29 (1957)	329
$C_{17}H_{18}O_5$	1-Acetoxy-8,9-dihydroxy-9-methyl-1,4,11,12-tetrahydroanthrone	-	-	Spec	Inhoffen	CCA	29 (1957)	329
$C_{17}H_{18}O_6$	4-(2',3'-Dime-thoxy-phenyl)-5-carbetoxy-6-methyl- α -pyrone	-	Sol	Band freq	Walker	JACS	76 (1954)	309
$C_{17}H_{18}O_6$	4,6,2'-Trimethoxy-6'-methylgris-2'-en-3,4'-dione	-	-	Group study	MacMillan	JCS	- (1953)	1697
$C_{17}H_{18}O_8$	3-Carboxy-4-carbomethoxy-hydroxymethyl-5,6,7-trime-thoxy-1-oxo-1,2,3,4-tetrahydro-naphthalene lactone	-	S	Band freq	Haworth	JCS	- (1954)	3611

C ₁₇ H ₁₈ O ₈	Methyl 3-phenylcyclopropane-1,1,2,2-tetra-carboxylate	3-11 μ	Sol., S	Spec, Struct	Allen	JOC	22 (1957)	1291
C ₁₇ H ₁₈ O ₉	3-Acetoxy-4-diacetoxy-methyl-7-methoxy-6-methylphthalide	-	S, Sol	Group freq	Duncanson	JCS	- (1953)	3637
C ₁₇ H ₁₈ O ₉	Cyclopolide triacetate	-	S	Group freq	Duncanson	JCS	- (1953)	3637
C ₁₇ H ₁₈ O ₉ ·H ₂ O	Triacetylgladiolic acid hydrate	-	S	Group freq	Grove	JCS	- (1952)	3345
C ₁₇ H ₁₉ Cl ₁ N ₂ O ₃ S	2-Chloro-p-phenylene-4-pivalamide-1-benzenesulfonamide	-	S	Ident, Freq	Adams	JACS	76 (1954)	3584
C ₁₇ H ₁₉ Cl ₁ O ₅	7-Chloro-4,6,2'-trimethoxy-6'-methylgris-2'-en-3-one	700-1850	S	Spec, Freq	Mulholland	JCS	- (1952)	3987
C ₁₇ H ₁₉ Cl ₁ O ₆	7-Chloro-4,6,4'-trimethoxy-6'-methylgrisan-3,2'-dione	-	S	Group freq	Mulholland	JCS	- (1952)	3987
C ₁₇ H ₁₉ Cl ₁ O ₆	Dihydrogriseofulvin	700-1850	S	Struct Spec, Group freq, Ident	Grove Mulholland	JCS JCS	- (1952) - (1952)	3977 3987
C ₁₇ H ₁₉ N	4-Dimethylamino-2'-methylstilbene	5-15 μ	S	Spec, Freq	Thompson	JCS	- (1950)	214
C ₁₇ H ₁₉ N	4-Dimethylamino-2'-methylstilbene-trans	960	S	Band study	Orr	SA	8 (1956)	218

$C_{17}H_{19}N$	4-Dimethylamino-3'-methylstilbene	5-15 μ	S	Spec, Freq	Thompson	JCS - (1950)	214
$C_{17}H_{19}N$	4-Dimethylamino-4'-methylstilbene	5-15 μ	S	Spec, Freq	Thompson	JCS - (1950)	214
$C_{17}H_{19}N$	4-Dimethylamino-4'-methylstilbene-trans	960	S	Band study	Orr	SA 8 (1956)	218
$C_{17}H_{19}N$	3,5-Diphenylpiperidine	-	-	Iso	ElieI	JACS 75 (1953)	4291
$C_{17}H_{19}N$	N- α -Phenylisobutylidenebenzylamine	600-4000	-	Spec, Assign	Hidalgo	ARS 53B (1957)	491
$C_{17}H_{10}NO_2$	d-N-Benzoylephedrine	600-3600	S	Spec	Kanzawa	BCSJ 29 (1956)	398
$C_{17}H_{19}NO_2$	dl-N-Benzoylephedrine	600-3600	S, Sol	Spec	Kanzawa	BCSJ 29 (1956)	398
$C_{17}H_{19}NO_2$	dl,d-N-Benzoyl- ψ -ephedrine	600-3600	S, Sol	Spec	Kanzawa	BCSJ 29 (1956)	398
$C_{17}H_{19}NO_2$	dl-N-Benzoyl- ψ -ephedrine	600-3600	Sol	Spec	Kanzawa	BCSJ 29 (1956)	398
$C_{17}H_{19}NO_2$	N-Benzyl- γ -hydroxy- γ -phenylbutyramide	1500-3500	S	Assign, Struct	Cromwell	JACS 80 (1958)	5473
$C_{17}H_{19}NO_2$	N-(α -Ethoxybenzyl)acetanilide	-	-	Spec, Freq, Struct	Burgstahler	JACS 73 (1951)	3021
$C_{17}H_{19}NO_2$	N-Benzoylephedrine	2.5-4 μ	Sol	Spec	Snyder	JACS 73 (1951)	1836
$C_{17}H_{19}NO_2 \cdot HCl$	dl-d-o-Benzoyl- ψ -ephedrine hydrochloride	600-3600	S	Spec	Kanzawa	BCSJ 78 (1956)	398
$C_{17}H_{19}NO_2 \cdot HCl$	dl-o-Benzoylephedrine hydrochloride	600-3600	S	Spec	Kanzawa	BCSJ 29 (1956)	398

C ₁₇ H ₁₉ NO ₂ .HCl	al-o-Benzoylphenhedrine hydrochloride	600-3600	S	Spec	Kanzawa	BCSJ	29 (1956)	396
C ₁₇ H ₁₉ NO ₂ .HCl	1-o-Benzoylphenhedrine hydrochloride	600-3600	S	Spec	Kanzawa	BCSJ	29 (1956)	398
C ₁₇ H ₁₉ NO ₃	Ethyl β-(2-quinolyl)ethylacetate	-	-	Band freq	Bockelheide	JACS	73 (1951)	4015
C ₁₇ H ₁₉ NO ₃	Morphine	2-16 μ	S	Spec	Levi	AC	26 (1954)	1040
		-	S	Ident	Marsh	AC	27 (1955)	636
		650-5000	S	Spec	Manning	APS	10 (1956)	85
		650-4000	-	Spec	Levi	AC	29 (1957)	470
C ₁₇ H ₁₉ NO ₃	Piperine	-	Sol	Group freq	Marion	JACS	73 (1951)	305
		-	S	Band study	Wildman	JACS	77 (1955)	1248
		700-5000	S,Sol	Freq	Briggs	AC	29 (1957)	904
C ₁₇ H ₁₉ NO ₃ .HCl	Dihydrormorphinone hydrochloride	650-5000	S	Spec	Manning	APS	10 (1956)	85
C ₁₇ H ₁₉ NO ₃ .HCl. 3H ₂ O	Morphine hydrochloride	650-5000	S	Spec	Manning	APS	10 (1956)	85
		-	S	Spec	Nakanishi	BCSJ	30 (1957)	403
		3000-3500	S,Sol	H bond	Boll	ACS	12 (1958)	1777
C ₁₇ H ₁₉ NO ₃ .HI	Morphine hydroiodide	2-16 μ	S	Spec	Levi	AC	26 (1954)	1040
		650-4000	-	Spec	Levi	AC	29 (1957)	470
C ₁₇ H ₁₉ NO ₄	Cocaine	-	S	Freq	Wildman	JACS	77 (1955)	1248
		700-1500	S	Freq	Briggs	AC	29 (1957)	904
C ₁₇ H ₁₉ NO ₄	Crinamine	-	-	Freq	Mason	JACS	77 (1955)	1253
		700-1500	S,Sol	Freq	Briggs	AC	29 (1957)	904
C ₁₇ H ₁₉ NO ₄	Montanine	-	S	Freq	Wildman	JACS	77 (1955)	1248
		700-1500	S,Sol	Freq	Briggs	AC	29 (1957)	904
C ₁₇ H ₁₉ NO ₄	Natalensine	-	S	Ident	Wildman	JACS	77 (1955)	1248
		700-1500	S,Sol	Freq	Briggs	AC	29 (1957)	904
C ₁₇ H ₂₀	1,1,4,7-Tetramethylphenalan	-	-	Ident	Grant	JACS	76 (1954)	5001

$C_{17}H_{20}N_2O$	1-Carboxy-1,12-dimethyl-10-ke to-1,2,3,4,9,10,11,12-oc tahydrophenanthrene hydrazone lactam	-	-	Band freq	Parham	JACS	77 (1955)	1166
$C_{17}H_{20}N_2O$	N,N' -Diethyl- N,N' -diphenylurea	1200-1700 2-15 μ	-	Spec Spec Freq, I	Barnes Pristera Thompson	IEC AC SA	15 (1943) 25 (1953) 13 (1958)	659 844 236
$C_{17}H_{20}N_2O$	4,4'-bis (Dimethyl-amino)benzophenone	1600-1800	Sol	Group freq	Fuson	JACS	76 (1954)	2526
$C_{17}H_{20}N_2O$	5-Acetyl-7-(1'-piperidylmethyl)-8-quinolinol	-	-	Band freq, Struct	Edgerton	JACS	74 (1952)	5209
$C_{17}H_{20}N_2O_3$	N - p -Nitrobenzoyl-camphenamine	5-7 μ	Sol	Spec	VanTamelien	JACS	75 (1953)	1297
$C_{17}H_{20}N_2O_3$	β -Phenyl- β -(3,4-dimethoxyphenyl)propionhydrazide	-	Sol	Band freq	Walker	JACS	76 (1954)	3999
$C_{17}H_{20}N_2O_3S$	p -Phenylenemopival-amide monobenzene-sulforamide	-	S	Group freq	Adams	JACS	76 (1954)	3584
$C_{17}H_{20}N_2O_4S$	Methyl benzylpenicillinate	2-11 μ 2-11 μ 2-11 μ	Sol Sol Sol	Spec Spec, Freq, Struct Spec, Freq, Struct	Sheehan Sheehan Sheehan	JACS JACS JACS	72 (1950) 73 (1951) 73 (1951)	3828 4367 4376
$C_{17}H_{20}N_2O_4S$	6-Methyl-D-benzylpenillic acid	2-7 μ	S	Spec, Freq	Stavely	JACS	73 (1951)	3450
$C_{17}H_{20}N_2O_5S$	N - p -Nitrobenzoyl- β -aminoboreryl sulfurous acid, <i>gamma</i> -amide	5-7 μ	Sol	Spec	VanTamelien	JACS	75 (1953)	1297

17 20 2 5
aminoboranyl sulfurous
acid, cyclic amide

$C_{17}H_{20}N_4O_3$	Di-p-dimethylamino-phenylcarbodiimide	-	-	Group freq	Khorrana	CR	53 (1953)	145
$C_{17}H_{20}N_4O_3$	Ribose phenylosazone	-	Sol	Ident	Burke	JOC	20 (1955)	643
$C_{17}H_{20}N_4O_3$	Xylose phenylosazone	-	Sol	Ident	Burke	JOC	20 (1955)	643
$C_{17}H_{20}N_4O_6$	Riboflavin	800-2000	-	Spec Spec	Barnes Cormier	IEC JACS	15 (1943) 75 (1953)	659 4864
$C_{17}H_{20}O$	d-erythro-1,2-Diphenyl-2-methyl-1-butanol	-	L	Freq	Cram	JACS	76 (1954)	4516
$C_{17}H_{20}O$	d-threo-1,2-Diphenyl-2-methyl-1-butanol	-	L	Freq	Cram	JACS	76 (1954)	4516
$C_{17}H_{20}O$	Oenantheone	-	-	Freq, Struct, Assign	Anet	JCS	- (1953)	309
$C_{17}H_{20}OSi$	p-Tolyl o-trimethylsilylphenyl ketone	-	Sol	Group freq	Benkeser	JACS	76 (1954)	599
$C_{17}H_{20}OSi$	p-Tolyl p-trimethylsilylphenyl ketone	-	Sol	Group freq	Benkeser	JACS	76 (1954)	599
$C_{17}H_{20}O_2$	2,2-Di-p-hydroxyphenyl-3-methylbutane	-	-	Band study, Config.	Rogers	JACS	75 (1953)	2991
$C_{17}H_{20}O_2$	2,2-Diphenyl-1,4-pentanediol	-	-	Group freq	Easton	JACS	75 (1953)	4731
$C_{17}H_{20}O_2$	2-Hydroxy-4-t-butyl-3,4-dihydrophenyl phenyl ketone	-	-	Group freq	Fuson	JACS	77 (1955)	3781
$C_{17}H_{20}O_2$	1-Hydroxyheptadeca-trans-8,10,12-triene-4,6-diyne-14-one	-	S	Band freq, I	Hillmiss	JCS	- (1955)	1770
$C_{17}H_{20}OSi$	p-Methoxyphenyl o-trimethylsilylphenyl ketone	-	Sol	Group freq	Benkeser	JACS	76 (1954)	599

$C_{17}H_{20}O_2Si$	p-Methoxyphenyl p-trimethylsilyl-phenyl ketone	-	Sol	Group freq	Benkeser	JACS 76 (1954)	599
$C_{17}H_{20}O_3$	2 α -Carboxy-2,6-dimethyl-6 α -hydroxycyclohexanyl α -benzyl ketone 2,6-lactone	-	-	Group freq, I, Assign	Parham	JACS 76 (1954)	5380
$C_{17}H_{20}O_3$	2 α -Carboxy-2,6-dimethyl-6 α -hydroxycyclohexanyl β -benzyl ketone 2,6-lactone	-	-	Group freq, I, Assign	Parham	JACS 76 (1954)	5380
$C_{17}H_{20}O_3$	1-Carboxy-1,12-dimethyl-10-keto-1,2,3,4,9,10,11,12-Octahydrophenanthrene	-	-	Group freq	Parham	JACS 77 (1955)	1166
$C_{17}H_{20}O_3$	Ethyl 5-phenyl-2-propionylhexa-2,4-dienoate	1200-1800	Sol	Spec, Freq	Lacey	JCS - (1960)	3153
$C_{17}H_{20}O_3$	Methyl 1,2,3,4,4a,9,10,10a-Octahydro-9-ketopheranthryl-10-acetate, α -isomer	845-2990	Sol	Table	Gutsche	JACS 75 (1953)	2579
$C_{17}H_{20}O_3$	6,7,7a,8,9,10,11,11a-Octahydro-7-Carbo-methoxy-5-keto-5H-dibenzo [a,c] cycloheptatriene, α -isomer	853-3000	Sol	Table	Gutsche	JACS 75 (1953)	2579
$C_{17}H_{20}O_3$	2,3,9-Trimethyl-5,9-dihydroxy-1,4,11,12-tetrahydroanthrone	-	-	Spec	Inhoffen	CCA 29 (1957)	329

C ₁₇ H ₂₀ O ₃		Spec	Inhoffen	CCA	29 (1957)	329
2,3,10-Trimethyl-5,10-dihydroxy-1,4,11,12-tetrahydroanthrone	-	-				
C ₁₇ H ₂₀ O ₃ S	α, α-Dimethyl-β-phenyl-β-hydroxyethyl p-tolyl sulfone	Group freq	Field	JACS	75 (1953)	5582
C ₁₇ H ₂₀ O ₃ S ₂	1,3-bis-Benzylsulfinylpropan-2-ol	Band freq	Johary	JCS	- (1955)	1302
C ₁₇ H ₂₀ O ₄	Anhydrotemulin	5.5-13 μ	Ungnade	JACS	72 (1950)	3813
C ₁₇ H ₂₀ O ₄	β-Carbomethoxy-β-(2-phenylcyclohexene-6)propionic acid, α-isomer	897-3500	Gutsche	JACS	75 (1953)	2579
C ₁₇ H ₂₀ O ₄	β-Carbomethoxy-β-(2-phenylcyclohexene-6)propionic acid, β-isomer	895-3525	Gutsche	JACS	75 (1953)	2579
C ₁₇ H ₂₀ O ₄	Desmotroposantonin	2-15 μ	Kanzawa	JACS	80 (1958)	3705
C ₁₇ H ₂₀ O ₅	4,5-Benzo-2,7-dicarbethoxycycloheptanone	-	Tarbell	JACS	76 (1954)	5761
C ₁₇ H ₂₀ O ₅	2-Benzoyloxymethylene-1-carbomethoxymethylcyclohexanol	2.89-14.31 μ	Dreiding	JACS	76 (1954)	6388
C ₁₇ H ₂₀ O ₅	5,8-Dihydro-2-hydroxy-3-carbethoxy-1-naphthaleneacetic acid ethyl ester	-	Tarbell	JACS	76 (1954)	5761
C ₁₇ H ₂₀ O ₅ S ₂	1,3-bis-Benzylsulfonylpropan-2-ol	1000-3390	Johary	JCS	- (1955)	1302

$C_{17}H_{20}O_6$	Acetylhelenalin oxide	-	-	Struct	Adams	JACS	71 (1949)	2551
$C_{17}H_{20}O_7$	Acetylhelenalin dioxide	-	-	Struct	Adams	JACS	71 (1949)	2551
$C_{17}H_{20}O_8$	Methyl benzaldehyde malonate	3-11 μ	S	Ident	Allen	JOC	22 (1957)	1291
$C_{17}H_{20}Si$	Cyclopentamethylene-diphenylsilane	2-35 μ	L	Assign	Oshesky	JACS	79 (1957)	2057
$C_{17}H_{20}Si$	Dibenzylallylsilane	2-16 μ	Sol	Freq	Kniseley	SA	15 (1959)	651
$C_{17}H_{21}ClO_5$	Tetrahydrooxy-griseofulvin	700-1850	S	Struct Spec, Freq, Ident	Grove Mulholland	JCS JCS	- (1952) - (1952)	3977 3987
$C_{17}H_{21}ClO_6$	7-Chloro-4'-hydroxy-4,6,6'-trimethoxy-2'-methylgrisan-3-one	700-1850	S	Spec	Mulholland	JCS	- (1952)	3987
$C_{17}H_{21}ClO_6$	7-Chloro-6'-hydroxy-4,6,4'-trimethoxy-2'-methylgrisan-3-one	-	S	Group freq	Mulholland	JCS	- (1952)	3987
$C_{17}H_{21}INP$	Hexahydro-1,4-diphenyl-p-methyl-1,4-azaphosphonium iodide	-	S	Group freq	Mann	JCS	- (1950)	3039
$C_{17}H_{21}INAs$	Hexahydro-1,4-diphenyl-1,4-azarsine methiodide	450-700	-	Spec, Struct	Beeby	JCS	- (1951)	886
$C_{17}H_{21}NO$	d- ϕ -Methylephedrine	600-3600	L, Sol	Spec	Kanzawa	BCSJ	29 (1956)	398
$C_{17}H_{21}NO_2$	Dihydro-des-N, N-dimethyl- α - β -erythroidine	-	-	Group freq, Ident	Grundon	JACS	75 (1953)	2537

$C_{17}H_{21}NO_3$				Spec	Skimmer	JACS	72 (1950)	5569
$C_{17}H_{21}NO_3$	1-Benzyl-4-ethyl-4-n-butyl-2,3,5-pyrrolidinetriene	-	-	Spec				
$C_{17}H_{21}NO_3$	3-Ethyl-4-methoxy-5',6'-dihydro-6',6'-dimethylpyran (1',2';5,6)quinolone-2	1450-4000	S	Spec, Freq	Price	AJC	12 (1959)	589
$C_{17}H_{21}NO_3$	1-Phenyl-4-ethyl-4-s-amy-2,3,5-pyrrolidinetriene	-	-	Spec	Skinner	JACS	72 (1950)	5569
$C_{17}H_{21}NO_4$	Cocaine alkaloid	650-5000	S	Spec	Manning	APS	10 (1956)	85
$C_{17}H_{21}NO_4$	Scopolamine	2-14 μ	S	Spec, Anal	Browning	AC	27 (1955)	7
$C_{17}H_{21}NO_4.HCl$	Cocaine hydrochloride	650-5000	S	Spec	Manning	APS	10 (1956)	85
$C_{17}H_{21}NO_4.H_2SO_4$	Cocaine sulphate	650-5000	S	Spec	Manning	APS	10 (1956)	85
$C_{17}H_{21}NO_4.HBr$	Scopolamine hydrobromide	-	Sol	Quant. Anal	Marsh	AC	27 (1955)	636
$C_{17}H_{21}NO_5$	trans-9-Decalyl p-nitrobenzoate	-	-	Purity	Goering	JACS	75 (1953)	5853
$C_{17}H_{21}NO_5$	9,10-Epoxy-9,10-seco-9-decalyl p-nitrobenzoate	-	-	Purity	Goering	JACS	75 (1953)	5853
$C_{17}H_{21}NO_5$	1-Phenyl-3-ethyl-4,4-dicarbethoxy-2-azetidione	2-11 μ	Sol	Spec	Sheehan	JACS	73 (1951)	1761
$C_{17}H_{21}NO_5$	2-Carbethoxy-3-benzoyl-4-carbomethoxy-5,5-dimethylthiazolidine	-	-	Band freq	Sheehan	JACS	74 (1952)	4957

C ₁₇ H ₂₂ O	Cicutol	-	-	Group freq, Struct	Anet	JCS	- (1953)	309
C ₁₇ H ₂₂ O	Oenantheol	-	-	Group freq, Struct, Assign	Anet	JCS	- (1953)	309
C ₁₇ H ₂₂ O ₂	dl-Cicutoxin	-	S	Ident	Hill	JCS	- (1955)	1770
C ₁₇ H ₂₂ O ₂	Oenantheotoxin	-	-	Group freq, Struct, Assign	Anet	JCS	- (1953)	309
C ₁₇ H ₂₂ O ₃	1-Benzoyloxy-1,6- epoxycyclodecane	-	-	Purity	Bartlett	JACS	75 (1953)	5591
C ₁₇ H ₂₂ O ₃	trans-9-Decalyl perbenzoate	-	-	Purity	Goering	JACS	75 (1953)	5853
C ₁₇ H ₂₂ O ₃	trans-1-Formyl-1-γ- ketopentyl-2-keto- 3,6 10-methyl-Δ - hexahydronaphthalene	2-12 μ	Sol	Spec	Woodward	JACS	74 (1952)	4223
C ₁₇ H ₂₂ O ₃	cis-5-Isopropyl-8- methylhydrin-4,6- diene maleic anhydride	2-13 μ	Sol	Spec	Conroy	JACS	74 (1952)	3046
C ₁₇ H ₂₂ O ₃	Podocarpic acid	1500-3700	Sol	Freq	Cole	JCS	- (1959)	2005
C ₁₇ H ₂₂ O ₄	β-Carbomethoxy-β- (2-phenylcyclo- hexane)propionic acid, α-isomer	962-3070	Sol	Table	Gutsche	JACS	75 (1953)	2579
C ₁₇ H ₂₂ O ₄	β-Carbomethoxy-β- (2-phenylcyclo- hexane)propionic acid, β-isomer	952-3080	Sol	Table	Gutsche	JACS	75 (1953)	2579

$C_{17}H_{22}O_4$	4b,5,6,7,8,8a,9,10-Octahydro-2,3,4-trimethoxy-10-ketophenanthrene	863-2900	Sol	Table	Gutsche	JACS 76 (1954)	1771
$C_{17}H_{22}O_5$	ψ -Santonin acetate	-	Sol	Freq	Dauben	JACS 77 (1955)	606
$C_{17}H_{22}O_5$	Temulin	5.5-13 μ	S	Spec, Struct	Ungnade	JACS 72 (1950)	3818
$C_{17}H_{22}O_5$	5,6,7,8-Tetrahydro-2-hydroxy-3-carbethoxy-1-naphthaleneacetic acid ethyl ester	-	-	Ident	Tarbell	JACS 76 (1954)	5761
$C_{17}H_{22}O_4$	Xanthinin	2-12 μ	Sol	Spec, Freq, Struct	Geissman	JACS 76 (1954)	685
$C_{17}H_{22}O_6$	4'-Hydroxy-4,6,6'-trimethoxy-2'-methylgrisan-3-one	-	S	Freq	Mulholland	JCS - (1952)	3987
$C_{17}H_{22}Si$	Methylphenyl-p-tert-butylphenylsilane	2-16 μ	Sol	Freq	Kniseley	SA 15 (1959)	651
$C_{17}H_{23}DO_4$	2-Methylene-bis-dimedone-d ₁	2000-3500	S	Spec, Freq	Bellamy	PRS 257 (1960)	98
$C_{17}H_{23}N$	N-Methylmorphinan	-	-	Freq	Ginsburg	JCS - (1953)	1524
$C_{17}H_{23}N$	N-Methylisomorphinan	-	-	Struct	Gates	JACS 72 (1950)	1141
$C_{17}H_{23}NO.HBr$	dl-3-Hydroxy-N-methylmorphinan hydrobromide	650-5000	S	Spec	Manning	APS 10 (1956)	85
$C_{17}H_{23}NO_2$	Picrotoxadiene maleic anhydride imide	2-13 μ	Sol	Spec	Conroy	JACS 74 (1952)	3046
$C_{17}H_{23}NO_2$	Tetrahydro-des-N,N-dimethyl- α - β -erythroidine	-	-	Ident, Freq	Grundon	JACS 75 (1953)	2537

C. H. S. No. 1771
 A. C. P. No. 1771
 Spec. Anal. 1771
 Sol. S
 JACS 76 (1954) 1771
 JACS 77 (1955) 606
 JACS 72 (1950) 3818
 JACS 76 (1954) 5761
 JACS 76 (1954) 685
 JCS - (1952) 3987
 SA 15 (1959) 651
 PRS 257 (1960) 98
 JCS - (1953) 1524
 JACS 72 (1950) 1141
 APS 10 (1956) 85
 JACS 74 (1952) 3046
 JACS 75 (1953) 2537

$C_{17}H_{23}NO_3$	Atopine	- 2-14 μ	Sol S	Group freq Spec, Anal	Marion Browning	JACS AC	73 (1951) 27 (1955)	305 7
$C_{17}H_{23}NO_3$	γ -Morpholinopropyl 1-phenylcyclopropane- carboxylate	1-2.7 μ	Sol	Group study	Washburn	JACS	80 (1958)	504
$C_{17}H_{23}NO_4$	Lunacridine	1450-4000	S, Sol	Spec, Freq	Price	AJC	12 (1959)	589
$C_{17}H_{23}NO$	N, O, Di-(2-oyano-2- propyl)-N-mesityl- hydroxylamine	-	-	Freq, I	Gingras	JCS	- (1954)	1920
$C_{17}H_{23}NO$	Mepyramine base	2900-3100	Sol	Freq	Hill	JCS	- (1958)	760
$C_{17}H_{25}N_2O_5$	5-Thioformylamino- 6-amino-4-triacetyl- D-Xylosideamino-2- methylpyrimidine	1700-1775	S	H bond, Spec	Brownlie	JCS	- (1948)	2265
$C_{17}H_{24}N_2O_5$	Methyl N-(N-phenyl- acetyl-L-seryl)-D- valinate	-	-	Ident, Struct	Adkins	JACS	76 (1954)	147
$C_{17}H_{24}N_4$	1-6, 11-Dicyano- sparteine	-	Sol	Band freq	Leonard	JACS	77 (1955)	1552
$C_{17}H_{24}O$	2-Isobornyl-4-methyl- phenol	3 μ	S, L, Sol	H bond	Sears	JACS	71 (1949)	4110
$C_{17}H_{24}O$	5-Methyl-7-(2,6,6- trimethylcyclohexa- 1,3-dienyl)hepta-2,4, 6-trien-1-ol	-	L	Band freq	Farrar	JCS	- (1952)	2657
$C_{17}H_{24}O$	2-(2,3-Dimethoxyphenyl) cyclohexane-1,2-diol acetamide	-	-	Band freq	Ginsburg	JACS	75 (1953)	5746
$C_{17}H_{24}O$	2-Methylene-bis- dimedone	2000-3500	S	Spec, Freq	Bellamy	PRS	257 (1960)	98

$C_{17}H_{24}O_{11}$	Penta- <i>o</i> -acetyl-dl-bornesitol	-	Sol	Ident	Anderson	JACS	76 (1954)	6130
$C_{17}H_{25}NO$	Des-N,N-dimethyl-desoxydihydro- <i>er</i> -erthroidinol	-	-	Freq, Struct	Weinstock	JACS	75 (1953)	2546
$C_{17}H_{25}NO$	σ -{ [1- β -ethanol-2-methyl-4-N,N-dimethylamino]-1-butenyl} vinylbenzene	-	-	Spec	Boekelheide	JACS	74 (1952)	1866
$C_{17}H_{25}NO_2$	Des-N,N-dimethyl-dihydro- α -erythro- <i>id</i> inol	-	-	Band study	Godfrey	JACS	77 (1955)	3342
$C_{17}H_{25}NO_3$	Des-N-methyl- β -erythro- <i>id</i> inol	-	-	Group freq, Struct	Boekelheide	JACS	75 (1953)	2550
$C_{17}H_{26}N_2O$	N-[2-(piperidino)propyl]propionanilide	3.38-3.6 μ	S	Freq	Wright	JOC	24 (1959)	1362
$C_{17}H_{26}N_2O_2$	6-Carboethoxy-2-cyclohexyl-2,3-dihydro-5,7-dimethyl-1H-imidazo[1.5-a]pyrrole	-	S	Band study	Burke	JACS	76 (1954)	1294
$C_{17}H_{26}N_2O_2$	N,N,N',N'-Tetraallylglutaramide	-	-	Group study	Butler	JACS	77 (1955)	1767
$C_{17}H_{26}N_2O_4S$	S-(Tetraacetyl- β -D-glucopyranosyl)thiuronium acetate	8-15 μ	S	Spec	Bonner	JACS	73 (1951)	2241
$C_{17}H_{26}N_2O_4$	Methyl <i>n</i> -nonyl ketone-2,4-dinitrophenylhydrazone	2-16 μ	S	Spec, Ident	Jones	AC	28 (1956)	191

$C_{17}H_{26}NO_4$		Ident	Wiberg	JACS	76 (1954)	5367
$C_{17}H_{26}O$	2,2,6,6-Tetramethylheptan-3-one-2,4-dinitrophenylhydrazone	-	-	-	-	-
$C_{17}H_{26}O$	5-Methyl-7-(2,6,6-trimethylcyclohex-1-enyl)hepta-2,4,6-trien-1-ol	L	Band freq	JCS	- (1952)	2657
$C_{17}H_{26}O$	Octyl p-xylyl ketone	Sol	Group freq	JACS	76 (1954)	2526
$C_{17}H_{26}O_2$	2-(3'-Hydroxy-3-pentyl)-1-phenyl-2-methylcyclopentanol	-	Group freq	JACS	76 (1954)	2285
$C_{17}H_{26}O_3$	Ethyl oxoacetate	S	Group freq	JCS	- (1955)	2114
$C_{17}H_{26}O_4$	1-Acetoxy-santan-1,2,7-olide	Sol	Group freq	JACS	77 (1955)	606
$C_{17}H_{26}O_4$	3,4-Bisnorandrostane-5,5,17-triol-2-oic-2 \rightarrow 5-lactole	-	Ident	JACS	76 (1954)	552
$C_{17}H_{26}O_5$	1-Dihydroumbellulonyl-malonic acid diethyl ester	L	Group freq	JACS	76 (1954)	4115
$C_{17}H_{26}O_8$	Tetramethyl β -santorate	Sol	Struct	JACS	72 (1950)	1009
$C_{17}H_{27}Cl_3OSi$	Trichlorosilylundecyl phenyl ether	-	Inductive effect	CPR	249 (1959)	826
$C_{17}H_{27}NO$	Des-N,N-dimethyl-desoxytetrahydro- β -erythroidinol	-	Struct	JACS	75 (1953)	2546
$C_{17}H_{27}NO$	2,4,5,5-Tetramethyl-2-(2-methyl-2-phenylpropyl)oxazolidine	Sol	Group freq	JACS	75 (1953)	358

$C_{17}H_{27}NO_2$				Ident	Godfrey	JACS	77 (1955)	3342
$C_{17}H_{28}$	Des-N,N-dimethyl-tetrahydro- α -erythroidinol	-	-	Ident				
$C_{17}H_{28}$	2,2-Dimethyl-9-phenylnonane	2-15 μ	L	Spec, Struct	Hawkes	SA	16 (1960)	633
$C_{17}H_{28}$	2-Methyl-2-phenyl-decane	2-15 μ	L	Spec, Struct	Hawkes	SA	16 (1960)	633
$C_{17}H_{28}$	1-Pherylundecane	2-15 μ	L	Spec, Struct	Hawkes	SA	16 (1960)	633
$C_{17}H_{28}$	2,2,4-Trimethyl-7-phenyloctane	2-15 μ	L	Spec, Struct	Hawkes	SA	16 (1960)	633
$C_{17}H_{28}N_2O_3 \cdot HCl$	2-n-Butoxy-3-(β -isobutylamino-carbethoxy)aniline	2-8 μ	S	Spec	Nakani shi	BCSJ	30 (1957)	403
$C_{17}H_{28}O$	2-n-Propyl-4,6-diisobutylphenol	-	Sol	Anal	Curtin	JACS	76 (1954)	2276
$C_{17}H_{28}O$	4-n-Propyl-2,6-diisobutylphenol	-	Sol	Anal	Curtin	JACS	76 (1954)	2276
$C_{17}H_{28}O_4$	2-Ethyl-2-butylpropene-diol-1,3-dimethacrylate	-	L,S	Freq	Loshack	JACS	75 (1953)	3544
$C_{17}H_{29}NO_2$	N,N'-bis(4-Amyl-5-pyra-zolono)guanidine	400-4000	-	Freq	Gagnon	CJC	37 (1959)	110
$C_{17}H_{30}N_2$	1,5-bis-(Diallylamino)pentane	-	-	Group Study	Butler	JACS	77 (1955)	1767
$C_{17}H_{30}N_2$	1-6-Ethylsparteine	-	Sol	Band study	Leonard	JACS	77 (1955)	1552
$C_{17}H_{30}O$	Di-(1,1,2,3-tetra-methyl-2-butenyl)ketone	-	-	Group freq	VanHeyningen	JACS	77 (1955)	4016

C ₁₇ H ₃₀ OSi	Trimethylsilyloctyl phenyl ether	-	-	Inductive effect	Josien	CPR	249 (1959)	826
C ₁₇ H ₃₀ O ₂ Si ₂	1-Allyloxy-2,4-bis-trimethylsilyloxy-methylbenzene	-	-	Struct	Burkhard	JACS	75 (1953)	5957
C ₁₇ H ₃₁ Br	Heptadeca-8,11-dienyl bromide	-	-	Anal, Freq	Howton	JACS	76 (1954)	4970
C ₁₇ H ₃₁ NO ₃	O(-)-Dodecyl-N-hydroxy-glutarimide	-	S	Group freq	Ames	JCS	- (1955)	631
C ₁₇ H ₃₂	1-Decylcycloheptene	-	-	Spec, Freq	Brini	BSCF	- (1959)	1188
C ₁₇ H ₃₂	1,1-Dicyclohexyl-pentane	-	S	Band freq Spec, Struct	Bomstein Bentley	AC SA	25 (1953) 15 (1959)	512 165
C ₁₇ H ₃₂	1,5-Dicyclohexyl-pentane	-	-	Band freq	Bomstein	AC	25 (1953)	512
C ₁₇ H ₃₂ O ₄	Dimethyl 2,6,6,9-tetramethylhendecane-1,11-diccate	1009-1739	L	Table	Fawcett	JCS	- (1954)	2669
C ₁₇ H ₃₃ N	Heptadecanenitrile	2200-2300	Sol	Freq, I Freq, Struct	Kitson Jesson	AC SA	24 (1952) 13 (1958)	334 217
C ₁₇ H ₃₃ O ₂	1-Methyl-1-azacyclo-heptadecan-9-ol-10-one	-	Sol	Freq	Leonard	JACS	76 (1954)	5708
C ₁₇ H ₃₄	Cycloheptadecane	650-1600	S,L	Spec	Billetter	HCA	41 (1958)	338
C ₁₇ H ₃₄ N ₂ O	L-Pyrrolidonecarboxylic acid tributylamine salt	800-1800	Sol	Ident	Beecham	JACS	76 (1954)	4618
C ₁₇ H ₃₄ O ₂	Heptadecanoic acid	720 650-4000	S S	Band study, Spec Spec, Freq	Chapman Subi	JCS JAOC	- (1957) 37 (1960)	4489 431

$C_{17}H_{34}O_2$	Methyl palmitate	- 1-12 μ 700-3500 0.9-3 μ	- Sol Sol Sol	Microwave Spec Spec, Freq Spec	Cook O'Connor Sinclair Holman	N JACS JACS AC	165 (1950) 28 (1951) 74 (1952) 28 (1956)	358 154 2570 1533
$C_{17}H_{34}O$	2-Monomyristin	650-3500	S	Spec, Struct	Chapman	JCS	- (1956)	55
$C_{17}H_{35}NO_2$	Dicyclohexylamine- 1,5-pentanediol adduct	1000-3750	S	H bond	Nakagawa	BCSJ	33 (1960)	433
$C_{17}H_{35}NO_3$	Dicyclohexylamine- (1)-1,2,5-pentane- triol adduct	1000-3750	S	H bond	Nakagawa	BCSJ	33 (1960)	433
$C_{17}H_{36}$	n-Heptadecane	2.6-3.8 μ 1.1-1.25 μ 700-3000 650-800	Sol L Sol S,L	Spec, Assign Anal, Spec Freq, Ext. Coefficient Band study	Fox Evans Jones Martin	PRS AC SA SA	175 (1940) 23 (1951) 9 (1957) 12 (1958)	208 1604 235 12
$C_{17}H_{36}NO_2$	Urea-palmitic acid complex	-	-	Freq, Struct	Scrocco	AAN	24 (1958)	435
$C_{17}H_{36}Si$	Cyclopentamethylene- dihexylsilane	2-35 μ	L	Assign, Spec	Oshealy	JACS	79 (1957)	2057
$C_{17}H_{36}Si$	Cyclopentamethylene- di-2-ethylbutylsilane	2-35 μ	L	Assign	Oshealy	JACS	79 (1957)	2057
$C_{17}H_{38}NO$	n-Hexadecane (Cetane) urea complex	- 600-4000	- S	Freq, Struct Spec	Scrocco Fischer	AAN CJC	24 (1958) 38 (1960)	435 187
$C_{17}H_{38}NO_2$	Urea-Cetyl alcohol complex	-	-	Freq, Struct	Scrocco	AAN	24 (1958)	435
$C_{17}H_{38}OSi$	Trimethylsilyldecyl butyl ether	-	-	Inductive effect	Josien	CPR	249 (1959)	826

C₁₈ COMPOUNDS

C ₁₈ H ₆ O ₆	Phenanthrene-1,8,9, 10-tetracarboxylic dianhydride	730-1779	S	Table	Brown	JCS - (1954)	1280
C ₁₈ H ₁₀	1,6-Diphenyl-1,3,5- hexatriene	-	Sol	Group freq, I	Armitage	JCS - (1954)	147
C ₁₈ H ₁₀ Br ₂ N ₂ O ₅	2,4-Dinitrophenyl 6'- phenyl-2',4'-dibromo- phenyl ether	1200-1400	Sol	Substitution effect	Dahlgard	JACS 80 (1958)	5861
C ₁₈ H ₁₀ Br ₄	1,2,3,4-Tetrabromo-6, 6-diphenylfulvene	660-4000	Sol	Spec	Wood	AC 30 (1958)	1339
C ₁₈ H ₁₀ O ₂	1,2-Benzanthra-3,4- quinone	1600-1800	Sol	Group freq	Josien	JCP 21 (1953)	331
C ₁₈ H ₁₀ O ₂	1,2-Benzanthra-9, 10-quinone	1600-1800 1600-1800	Sol Sol	Group freq Group freq	Josien Fuson	JCP 21 (1953) JACS 76 (1954)	331 2526
C ₁₈ H ₁₀ O ₂	Chrysenequinone-1,2	- 1600-1800	S Sol	Group freq Group freq	Josien Josien	JACS 73 (1951) JCP 21 (1953)	478 331
C ₁₈ H ₁₀ O ₂	Naphthacenequinone	1600-1800	Sol	Group freq	Josien	JCP 21 (1953)	331
C ₁₈ H ₁₀ O ₄	Dihydroxynaphthacene- quinone	1600-1800	Sol	Group freq	Josien	JCP 21 (1953)	331
C ₁₈ H ₁₀ O ₄	Pulvic acid lactone	650-3800	-	Spec	Frank	JACS 72 (1950)	1824
C ₁₈ H ₁₀ O ₇	Dibenzoyloxymaleic anhydride	5.30-10.72 μ	Sol	Table, Group freq, I	Goodwin	JACS 76 (1954)	5599
C ₁₈ H ₁₁ BrO ₃	2-Bromodibenzo [2,2,2] bicyclooctadiene-2,5- cis-dicarboxylic anhydride	2-15 μ	S	Spec	Vaughan	JACS 74 (1952)	5623

$C_{18}H_{11}N_3O_5S$	3,4-Dicyano-1-naphthalenebenzenesulfonamide	-	-	Group study	Adams	JACS	74 (1952)	5562
$C_{18}H_{11}N_3O_7$	Biphenylene oxide 1,3,5-trinitrobenzene	-	-	Ident	Entel	JACS	77 (1955)	611
$C_{18}H_{12}$	Benzanthrene	650-2010	S	Spec	Cannon	SA	4 (1951)	373
$C_{18}H_{12}$	1,2-Benzanthracene	670-3150 660-2030	S S	Spec, Band freq Spec	Orr Cannon	JCS SA	- 4 (1951)	218 373
$C_{18}H_{12}$	3,4-Benzphenanthrene	620-2020 1375-1530	S Sol	Spec Substitution effect	Cannon Moritz	SA SA	4 (1951) 16 (1960)	373 74
$C_{18}H_{12}$	9,10-Benzphenanthrene	650-2000	S	Spec	Cannon	SA	4 (1951)	373
$C_{18}H_{12}$	Chrysene	670-3150 650-2010	S S	Spec, Band freq Spec	Orr Cannon	JCS SA	- 4 (1951)	218 373
$C_{18}H_{12}$	Naphthacene	660-2020	S	Spec Freq	Cannon Sidman	SA JCP	4 (1951) 25 (1956)	373 122
$C_{18}H_{12}Cl_4N_2O_4S_2$	2,3,5,6-Tetrachloro-p-phenylenedibenzene-sulfonamide	650-3250	S	Group freq Ident	Adams Adams	JACS JACS	74 (1952) 74 (1952)	2608 5869
$C_{18}H_{12}N_3O_9PS$	O,0,0-Tri-p-nitrophenyl phosphorothioate	-	-	Freq, Assign	Ketelaar	ETC	78 (1959)	190
$C_{18}H_{12}N_3O_{10}P$	Tri-o-nitrophenyl phosphate	-	-	Freq, Assign	Ketelaar	ETC	78 (1959)	190
$C_{18}H_{12}N_3O_{10}P$	Tri-p-nitrophenyl phosphate	-	-	Freq, Assign	Ketelaar	ETC	78 (1959)	190
$C_{18}H_{12}N_5O_6$	α , α -Diphenyl- β -picrylhydrazyl	2.8-3.1 μ 7.5-15 μ	Sol S	Spec Spec, Group freq	Poirier Poirier	JOC JOC	17 (1952) 19 (1954)	1437 1847
$C_{18}H_{12}N_5O_7$	α , α -Diphenyl- β -picryl- β -oxyhydrazyl	2.8-3.1 μ 7.5-15 μ	Sol S	Spec Spec, Group freq	Poirier Poirier	JOC JOC	17 (1952) 19 (1954)	1437 1847

Formula	Compound Name	Wavenumber	Phase	Substitution effect	Author	Year	Page
C ₁₈ H ₁₂ O ₂	2,5-Diphenyl-p-benzoquinone	5-15 μ	S	Spec, Struct	Flagg Edwards	43 (1956) 10 (1960)	467 246
C ₁₈ H ₁₂ O ₃	Dibenzo [2,2,2] bicyclooctadiene-2,3-cis-dicarboxylic anhydride	2-15 μ	S	Spec	Vaughan	74 (1952)	5623
C ₁₈ H ₁₂ O ₃	o-Naphthoylbenzoic acid	700-4000	S,L	Table, Group freq	Flett	- (1951)	962
C ₁₈ H ₁₂ O ₄	3,6-Dihydroxy-2,5-diphenyl-1,4-benzoquinone	5-15 μ	S	Spec, Struct	Edwards	10 (1960)	246
C ₁₈ H ₁₂ O ₅	Pulvic acid	650-3800	-	Spec	Frank	72 (1950)	1824
C ₁₈ H ₁₂ O ₆	3,6-Dihydroxy-2,5-diphenyl-1,4-benzoquinone	5-15 μ	S	Spec, Struct	Edwards	10 (1960)	246
C ₁₈ H ₁₂ O ₆ B ₂	Tri-o-phenylenediborate	6-14 μ	L	Struct	Blau	- (1960)	380
C ₁₈ H ₁₃ BrO ₄	2-Bromodibenzo [2,2,2] bicyclooctadiene-2,3-trans-dicarboxylic acid	2-15 μ	S	Spec, Struct	Vaughan	74 (1952)	5623
C ₁₈ H ₁₅ Cl ₁ N ₁ O ₂ S ₂	N,N-Dibenzene sulfonyl-2-chloro-4-nitroaniline	-	S	Group freq	Adams	76 (1954)	3584
C ₁₈ H ₁₅ Cl ₁ N ₁ O ₂ S ₂	2,3,5-Trichloro-p-phenylenedibenzene-sulfonamide	650-3210	S	Group freq	Adams	74 (1952)	2608
C ₁₈ H ₁₇ N	1-Aminochrysene	3 μ	Sol	Freq	Elliot	- (1959)	1275
C ₁₈ H ₁₇ N	3-Phenyl-7,8-benzopyrrocoline	-	-	Ident	Boekelheide	75 (1953)	3679

$C_{18}H_{13}NO_3$	2-Nitrophenyl 1' - (2' -biphenyl)ether	1200-1400	Sol	Substitution effect	Dahlgard	JACS	80 (1958)	5861
$C_{18}H_{13}NO_3$	4-Nitrophenyl 1' - (2' -biphenyl)ether	1200-1400	Sol	Substitution effect	Dahlgard	JACS	80 (1958)	5861
$C_{18}H_{15}NO_7$	α -Carboxy- β -(α - ni trostyryl) tropolone acetate	-	S	Ident	Tarbell	JACS	76 (1954)	2470
$C_{18}H_{13}N_2O_7PS$	O, O-Di-p-nitrophenyl- O-phenyl phosphoro- thioate	-	-	Freq, Assign	Ketelaar	RTC	78 (1959)	190
$C_{18}H_{13}N_2O$	Rutaecarpine	-	Sol	Group freq	Marion	JACS	73 (1951)	305
$C_{18}H_{13}N_2O_6$	α , α -Diphenyl- β - picrylhydrazine	2.8-3.1 μ 7.5-15 μ	Sol S	Spec, H bond Spec, Group freq	Poirier Poirier	JOC JOC	17 (1952) 19 (1954)	1437 1847
$C_{18}H_{13}N_2O_7$	α , α -Diphenyl- β - picryl- β -hydroxy- hydrazine	2.8-3.1 μ 7.5-15 μ	Sol S	Spec, H bond Spec, Group freq	Poirier Poirier	JOC JOC	17 (1952) 19 (1954)	1437 1847
$C_{18}H_{13}N_2O_{10}$	Di-DNP-L-histidine	625-5000	S	Spec, Ident	Friedberg	CJC	37 (1959)	1469
$C_{18}H_{14}$	Dihydronaphthacene	660-2040	S	Spec	Cannon	SA	4 (1951)	373
$C_{18}H_{14}$	m-Diphenyl benzene	1050-1800 650-2040	- Sol	Spec Spec	Barnes Cannon	IEC SA	15 (1943) 4 (1951)	659 373
		9.26-14.33 μ 5-38 μ 11.9-18.4 μ	- S Sol	Band freq Spec, Freq Anal	Ipakieff Stewart Keen	JACS JRNJB AC	75 (1953) 60 (1958) 31 (1959)	6056 125 1741
$C_{18}H_{14}$	O-Diphenyl benzene	1050-1800 650-2040 2-25 μ 5-38 μ 11.9-18.4 μ	- S S S Sol	Spec Spec Spec Spec, Freq, Assign Anal	Barnes Cannon Dale Stewart Keen	IEC SA ACS JRNJB AC	15 (1943) 4 (1951) 11 (1957) 60 (1958) 31 (1959)	659 373 640 125 1741

C ₁₈ H ₁₄	1050-1800 650-2030 8.96-14.39μ	- S -	Spec Spec Table, Band freq Ident Spec, Assign Spec, Freq, Assign Anal	Barnes Cannon Ipatieff Silverman Dale Stewart Keen	IEC SA JACS AC ACS JRNB AC	15 (1943) 4 (1951) 75 (1953) 26 (1954) 11 (1957) 60 (1958) 31 (1959)	659 373 6056 434 640 125 1741
p-Diphenyl benzene	1050-1800 650-2030 8.96-14.39μ	- S -	Spec Spec Table, Band freq Ident Spec, Assign Spec, Freq, Assign Anal	Barnes Cannon Ipatieff Silverman Dale Stewart Keen	IEC SA JACS AC ACS JRNB AC	15 (1943) 4 (1951) 75 (1953) 26 (1954) 11 (1957) 60 (1958) 31 (1959)	659 373 6056 434 640 125 1741
C ₁₈ H ₁₄	660-4000	Sol	Spec	Wood	AC	30 (1958)	1339
6,6-Diphenylfulvene	660-4000	Sol	Spec	Wood	AC	30 (1958)	1339
C ₁₈ H ₁₄ BrNO ₃	-	-	Absorption	Skinner	JACS	72 (1950)	5569
1-p-Bromophenyl-4-ethyl-4-phenyl-2,3,5-pyrrolidimetrione	-	-	Absorption	Skinner	JACS	72 (1950)	5569
C ₁₈ H ₁₄ Cl ₂ N ₂ O ₂ S ₂	-	-	Group freq, Iso	Adams	JACS	75 (1953)	3405
κ-Azido-2-chloro-p-phenylene-di-benzene-sulfonamide	-	-	Group freq, Iso	Adams	JACS	75 (1953)	3405
C ₁₈ H ₁₄ Cl ₂ N ₂ O ₂ S ₂	600-3400	S	Group freq	Adams	JACS	74 (1952)	2608
2,3-Dichloro-p-phenylenedibenzene-sulfonamide	600-3400	S	Group freq	Adams	JACS	74 (1952)	2608
C ₁₈ H ₁₄ Cl ₂ N ₂ O ₂ S ₂	650-3300	S	Group & Band freq	Adams	JACS	74 (1952)	2608
2,5-Dichloro-p-phenylenedibenzene-sulfonamide	650-3300	S	Group & Band freq	Adams	JACS	74 (1952)	2608
C ₁₈ H ₁₄ NO ₅ PS	-	-	Freq, Assign	Ketelaar	RTC	78 (1959)	190
O,p-Nitrophenyl-O,o-diphenyl phosphorothioate	-	-	Freq, Assign	Ketelaar	RTC	78 (1959)	190
C ₁₈ H ₁₄ N ₂	-	-	Spec not shown, Group freq	Nevey	JACS	72 (1950)	5645
α-Phenylacrylonitrile dimer	-	-	Spec not shown, Group freq	Nevey	JACS	72 (1950)	5645
C ₁₈ H ₁₄ N ₂ O ₂	-	S	H bond	Weinstein	JACS	78 (1956)	2387
7,7'-Dimethylindigo	-	S	H bond	Weinstein	JACS	78 (1956)	2387
C ₁₈ H ₁₄ N ₂ O ₄	1750-3215	-	Group freq	Flett	JCS	- (1948)	1441
1,4-bis-Acetyl-amido-anthraquinone	1750-3215	-	Group freq	Flett	JCS	- (1948)	1441
C ₁₈ H ₁₄ N ₂ O ₄	2-8μ	S	Spec, Band freq	Sheehan	JACS	74 (1952)	360
3-Phenyl-2,4,5-triketone-1-pyrrolidineacetanilide	2-8μ	S	Spec, Band freq	Sheehan	JACS	74 (1952)	360

$C_{18}H_{14}N_2O_6$	Benzyl furoxan-dicarboxylate	-	S	Table, I, Group freq	Boyer	JACS 77 (1955)	4238
$C_{18}H_{14}N_2O_6$	Dianisoylfuroxan	-	S	Table, I, Group freq	Boyer	JACS 77 (1955)	4238
$C_{18}H_{14}N_2O_3S$	2-Thio-3-o-nitro-phenyl-5-(indole-3'-methylene)hydantoin (Derived from dl-Tryptophan)	600-4000	S	Spec, I	Epp	AC 29 (1957)	1283
$C_{18}H_{14}N_4O_4$	Dianisoylfuroxanazine	-	S	Table, I, Group freq	Boyer	JACS 77 (1955)	4238
$C_{18}H_{14}N_4O_2S_2$	2,x-Diazido-p-phenylene-di benzene sulfonamide	-	-	Ident	Adams	JACS 75 (1953)	3405
$C_{18}H_{14}N_{10}O_8$	bis-(m-Nitrobenzoyl)-furoxan disemicarbazone	-	S	Table, I, Group freq	Boyer	JACS 77 (1955)	4238
$C_{18}H_{14}O$	Acetylpyrene	-	S	Group freq	Josien	JACS 73 (1951)	478
$C_{18}H_{14}O$	5-Benzylidene-3-phenyl- Δ^2 -cyclopentenone	1600-1800	Sol	Group freq	Fuson	JACS 76 (1954)	2526
$C_{18}H_{14}O$	2-Phenoxybiphenyl	-	-	Freq	DeTar	JACS 77 (1955)	4411
$C_{18}H_{14}O_2$	4,8-Dihydrocyclohepta-[def]fluorene-9-carboxylic acid methyl ester	-	S	Freq	Reid	JCS - (1955)	1193
$C_{18}H_{14}O_2$	9,10-Dihydro-9-methyl-9,10-ethanoanthracene-12-carboxylic acid lactone	-	Sol	Band freq	Meek	JACS 74 (1952)	761
$C_{18}H_{14}O_2$	1,6-Diphenyl-1,5-hexadiene-3,4-dione	-	S	Group freq	Leonard	JACS 75 (1953)	2714

$C_{18}H_{14}O_2S$	2.5-16 μ	Sol	Struct, Freq	Nyquist	SA	15 (1959)	514
Naphthylthio o-methoxybenzoate							
$C_{18}H_{14}O_3$	-	S	Freq, Struct	Meek	JACS	74 (1952)	761
9-Formyl-9,10-dihydro-9,10-ethanthracene-12-carboxylic acid							
$C_{18}H_{14}O_4$	2-15 μ	S	Spec, Struct	Vaughan	JACS	74 (1952)	5623
Dibenzo [2,2,2] bicyclooctadiene-2,3-trans-dicarboxylic acid							
$C_{18}H_{14}O_4$	2-13 μ	S	Group freq, Struct	Klemm	JACS	76 (1954)	1688
1-(3-Methoxyphenyl)-4-hydroxy-2-naphthoic acid							
$C_{18}H_{14}O_4$	2-13 μ	S	Spec, Group freq, Struct	Klemm	JACS	76 (1954)	1688
1-Phenyl-4-hydroxy-5-methoxy-2-naphthoic acid							
$C_{18}H_{14}O_5$	2-15 μ	S	Spec, Struct	Vaughan	JACS	74 (1952)	5623
2-Hydroxydibenzo [2,2,2] bicyclo-octadiene-2,3-trans-dicarboxylic acid							
$C_{18}H_{14}O_5$	2-16 μ	S	Spec, Freq	Celmer	JACS	74 (1952)	3838
Isomycomycin methyl ester, maleic anhydride adduct							
$C_{18}H_{14}O_7$	700-5000	S	Freq	Briggs	AC	29 (1957)	904
5-Hydroxy-3,7-dimethyloxy-3',4'-methylenedioxy-flavone							
$C_{18}H_{15}DFNB$	-	S	H bond, Band freq	Nuttall	JCS	- (1960)	4965
Triphenylammonium tetrafluoroborate-d ₁							
$C_{18}H_{15}DSi$	600-4000	L	Spec, Group assign	Kaplan	JACS	76 (1954)	5880

$C_{18}H_{15}BrCl_2S$	Triphenylsulfonium dichlorobromide	8-15 μ	S	Spec	Bonner	JACS	74 (1952)	5078
$C_{18}H_{15}BrS$	Triphenylsulfonium bromide	8-15 μ	S	Spec	Bonner	JACS	74 (1952)	5078
$C_{18}H_{15}Br_3S$	Triphenylsulfonium tribromide	8-15 μ	S	Spec	Bonner	JACS	74 (1952)	5078
$C_{18}H_{15}Br_5S$	Triphenylsulfonium pentabromide	8-15 μ	S	Spec	Bonner	JACS	74 (1952)	5078
$C_{18}H_{15}Cl_2N_2O_4S_2$	N',N'-Dibenzene-sulfonyl-2-chloro-p-phenylenediamine	-	S	Group freq	Adams	JACS	76 (1954)	3584
$C_{18}H_{15}Cl_2N_2O_6$	Triacetyl derivative of chlorotrihydroxy-dihydrophenazine	650-5000	S	Spec	Gagnon	CJC	35 (1957)	1423
$C_{18}H_{15}Cl_3S$	Triphenylsulfonium chloride	8-15 μ	S	Spec	Bonner	JACS	74 (1952)	5078
$C_{18}H_{15}Cl_3Si$	Diphenyl-m-chloro-phenylsilane	2-16 μ	Sol	Freq	Kniseley	SA	15 (1959)	651
$C_{18}H_{15}Cl_3Si$	Diphenyl-p-chloro-phenylsilane	2-16 μ	Sol	Freq	Kniseley	SA	15 (1959)	651
$C_{18}H_{15}Cl_3Si$	Triphenylchlorosilane	2-30 μ 2-15 μ	Sol Sol	Spec, Struct, Anal Freq, Spec, Struct	Grenoble Smith	APS SA	14 (1960) 16 (1960)	85 87
$C_{18}H_{15}Cl_4N_3B_3$	B-trichloro-N-triphenylborazole	-	Sol	Struct	Watanabe	SA	16 (1960)	78
$C_{18}H_{15}I_3S$	Triphenylsulfonium iodide	8-15 μ	S	Spec	Bonner	JACS	74 (1952)	5078
$C_{18}H_{15}I_3S$	Triphenylsulfonium triiodide	8-15 μ	S	Spec	Bonner	JACS	74 (1952)	5078

$C_{18}H_{15}N$	Triphenylamine	1-12 μ .6-2.3 μ 1182 625-900 700-1700	L L Sol Sol S	Spec Group study Freq, Electronegativity Substitution effect Spec, Struct	Bell Ellis Kross Margoshes Kemmitt	JACS 48 (1926) JACS 50 (1928) JACS 77 (1955) SA 7 (1955) JCS - (1960)	813 685 5858 14 46
$C_{18}H_{15}NO$	α , α -Diphenyl-2-pyridinethanol	2-12 μ	Sol	Spec, Band freq, Struct	Witkop	JACS 73 (1951)	2196
$C_{18}H_{15}NO$	Phenyl β -(1-isoquinolyl)ethyl ketone	-	-	Group freq	Boekelheide	JACS 75 (1953)	3679
$C_{18}H_{15}NO_2$	α -(4'-Acetylphenyl)-4-methoxycinnamitrile	-	-	Struct	Rorig	JACS 75 (1953)	5381
$C_{18}H_{15}NO_2$	4'-Cyanomethyl-4-methoxychalcone	-	-	Group freq	Rorig	JACS 75 (1953)	5381
$C_{18}H_{15}NO_2$	α , α -Diphenyl-2-pyridinethanol oxide	2-12 μ	Sol	Spec, Band freq, Struct	Witkop	JACS 73 (1951)	2196
$C_{18}H_{15}NO_3$	1,3-Diphenyl-3-ethyl-1,4,5-pyrrolidine-trione	-	-	Band freq	Sheehan	JACS 74 (1952)	360
$C_{18}H_{15}NO_3$	1,4-Diphenyl-4-ethyl-2,3,5-pyrrolidine-trione	2-16 μ	S	Spec	Skinner	JACS 72 (1950)	5569
$C_{18}H_{15}NO_3$	4,4-Diphenyl-1-ethyl-2,3,5-pyrrolidine-trione	2-16 μ	S	Spec	Skinner	JACS 72 (1950)	5569
$C_{18}H_{15}NO_3$	2-Ethylbenzylidene-3-phenyl-4,5-oxazolidinedione	-	-	Band study	Sheehan	JACS 74 (1952)	360

C ₁₈ H ₁₅ ^{A5}	Triphenylarsine	1075	Sol	Substitution effect, Freq, Electronegativity	Kross	JACS	77 (1955)	5858
C ₁₈ H ₁₆	Diphenylhexatriene	650-2000	S	Correlation	Canon	SA	4 (1951)	373
C ₁₈ H ₁₆ ClN ₃ O ₃ S ₄	2-Amino-x-chloro-p-phenylenedi benzene-sulforamide	-	-	Iso	Adams	JACS	75 (1953)	3405
C ₁₈ H ₁₆ F ₄ NB	Triphenylammonium tetrafluoroborate	-	S	H bond, Band freq	Nuttall	JCS	- (1960)	4965
C ₁₈ H ₁₆ NO ₃ P	Diphenyl anilino-phosphonate	-	S, Sol	Group freq Group freq	Bellamy Bell	JCS JACS	- (1952) 76 (1954)	1701 5185
C ₁₈ H ₁₆ N ₂	2-Methyl-3,3'-[2'-methylindyl] indole	2-11.5 μ	Sol	Spec	Witkop	JACS	73 (1951)	713
C ₁₈ H ₁₆ N ₂ O	2-Methyl-2,3'-[2'-methylindyl] indoxyl	2-12 μ	Sol	Spec, Struct, Band assign	Witkop	JACS	73 (1951)	713
C ₁₈ H ₁₆ N ₂ O ₂	5- α -Furyl-2,4-pentadieniazine	1400-2000	Sol, S	Spec	Blout	JACS	70 (1948)	194
C ₁₈ H ₁₆ N ₂ O ₃	3-Phenylcarbomethoxy-aminocetylindole	700-4000	S	H bond, Band study	Tanner	SA	9 (1957)	282
C ₁₈ H ₁₆ N ₂ O ₆	1-Phenyl-3-dinitro-mesityl-1-propene-2-ol-3-one	2-7 μ	Sol	Group freq	Barnes	JACS	75 (1953)	479
C ₁₈ H ₁₆ N ₂ O ₇	β -(Hydroxymethyl)-butyropenone-3,5-dinitrobenzoate	-	Sol	Freq	Ramirez	JACS	77 (1955)	3768
C ₁₈ H ₁₆ N ₂ O ₈	3-(Phenyl-p-azaphenyl)-2-thio-1,5-(2'-hydroxypropyl)hydantoin(derived from 1-Hydroxyproline)	600-4000	S	Spec, Ident	Epp	AC	29 (1957)	1283

$C_{18}H_{16}N_4O_3S$	600-4000	S	Spec, Ident	Epp	AC	29 (1957)	1283
3-(Phenyl-p-azophenyl)-2-thiohydantoin-5-propanoic acid (Derived from L-Glutamic acid)	-	Sol	Band & Group freq	Ramirez	JACS	75 (1953)	6026
$C_{18}H_{16}N_4O_4$	-	Sol	Band freq	Walker	JACS	77 (1955)	3664
2,3-Benzocycloocta-2,7-diene-1-one-2,4-dinitrophenylhydrazone	-	Sol	Band freq, Group freq	Ramirez	JACS	75 (1953)	6026
$C_{18}H_{16}N_4O_4$	-	Sol	Band freq	Walker	JACS	77 (1955)	3664
3-Phenylcyclohex-2-en-1-one-2,4-dinitrophenylhydrazone	-	Sol	Band freq, Group freq	Ramirez	JACS	75 (1953)	6026
$C_{18}H_{16}N_4O_6$	-	Sol	Band freq, Group freq	Ramirez	JACS	75 (1953)	6026
2-Acetoxy-1-tetralone syn-2,4-dinitrophenylhydrazone	-	Sol	Band freq, Group freq	Ramirez	JACS	75 (1953)	6026
$C_{18}H_{16}N_4O_{12}S$	625-5000	S	Spec, Ident	Friedberg	CJC	37 (1959)	1469
Di-DNP-L-cystine	-	Sol, S	Freq	Yates	JACS	80 (1958)	5896
$C_{18}H_{16}O$	-	-	Assignment Freq Band study	Jones Jones Ramsay	JACS	70 (1948) 74 (1952) 74 (1952)	2024 80 72
3,4-Diphenyl-4-methylcyclopent-1-one	1665-1765 1695-1755	Sol	Band study	Ramsay	JACS	74 (1952)	72
$C_{18}H_{16}O$	-	-	Assignment	Jones	JACS	70 (1948)	2024
1,3,5:10,6,8,14 Estrahexaene-17	-	-	Assignment	Jones	JACS	70 (1948)	2024
$C_{18}H_{16}O$	-	-	Assignment	Jones	JACS	70 (1948)	2024
1,3,5:10,6,8,15 Estrahexaene-17	-	-	Assignment	Jones	JACS	70 (1948)	2024
$C_{18}H_{16}O$	-	Sol	Group freq	Wilds	JOC	17 (1952)	1154
2-Xe to-2,3,4,4a,5,6-hexahydrobenzo[c]phenanthrene	-	Sol	Group freq	Wilds	JOC	17 (1952)	1154

18 16
hexahydrodibenzoc[1,2-c]p

$C_{18}H_{16}OSi$	Phenyl-p-phenoxy-phenylsilane	2-16 μ	Sol	Freq	Kniseley	SA	15 (1959)	651
$C_{18}H_{16}OSi$	Triphenylsilanol	500-1700	S	Spec, Table, Group assign Spec, Group freq, H bond	Richards	JCS	- (1949)	124
		2-16 μ	Sol	H bond	Tatlock	JOC	17 (1952)	1555
		3300-3700	Sol	H bond	West	JACS	81 (1959)	6145
		-	Sol	H bond	West	JACS	82 (1960)	6269
$C_{18}H_{16}O_2$	cis-Dimethyl-dibenzoylethylene	6.05-14.4 μ	S	Table, Group freq	Kuhn	JACS	72 (1950)	5058
$C_{18}H_{16}O_2$	trans-Dimethyl-dibenzoylethylene	6.04-13.95 μ	S	Table, Group freq	Kuhn	JACS	72 (1950)	5058
$C_{18}H_{16}O_2$	3,4-Diphenyl-4-hydroxy-2-methyl- Δ^2 -cyclopentenone	1600-1800	Sol	Group freq	Fuson	JACS	76 (1954)	2526
$C_{18}H_{16}O_2$	1-Methyl-7-isopropyl-9,10-phenanthraquinone	1600-1800	Sol	Group freq	Josien	JCP	21 (1953)	331
$C_{18}H_{16}O_3$	11-Oxoquinolenin (inactive)	-	-	Group freq	McNiven	JACS	76 (1954)	1725
$C_{18}H_{16}O_5$	7,3',4'-Trimethoxy-flavone	-	Sol	Group freq	Shaw	JCS	- (1955)	655
$C_{18}H_{16}O_6$	α -Conidendrol	700-3600	S	Spec, Assign	Spearin	JOC	15 (1950)	984
$C_{18}H_{16}O_6$	β -Conidendrol	700-3600	S	Spec, Assign	Spearin	JOC	15 (1950)	984
$C_{18}H_{16}O_6$	1,2,5,8-Tetraethoxy-anthraquinone	-	Sol	Substitution effect	Wiles	JCS	- (1956)	4811
		2-15 μ	S	Freq, Assign, Correlation	Bloom	JCS	- (1959)	178

$C_{18}H_{16}O_6$	1,3,5,7-Tetramethoxy-anthraquinone	2-15 μ	S	Freq, Assign, Correlation	Bloom	JCS - (1959)	178
$C_{18}H_{16}O_6$	1,4,5,8-Tetramethoxy-anthraquinone	-	Sol	Struct	Wiles	JCS - (1956)	4811
$C_{18}H_{16}O_6$	2,3,6,7-Tetramethoxy-anthraquinone	-	Sol	Substitution effect	Wiles	JCS - (1956)	4811
$C_{18}H_{16}O_8$	Chrysoplenetin (3,5,4'-trihydroxy-6,7,3'-trimeθοxyflavone)	-	L	Freq	Ingllett	JOC 23 (1958)	93
$C_{18}H_{16}Si$	Triphenylsilane	600-4000 2-16 μ 2050-2250	L Sol Sol	Spec, Group assign Freq Freq, Struct	Kaplan Kniseley Smith	JACS 76 (1954) SA 15 (1959) SA 15 (1959)	5880 651 412
$C_{18}H_{17}BrN_4O_4$	8-Bromo-2,3-benzocyclooct-2-en-1-one anti-2,4-dinitrophenylhydrazone	-	Sol	Band freq	Ramirez	JACS 75 (1953)	6026
$C_{18}H_{17}ClO_2$	p-Duroylbenzoyl chloride	-	-	Group freq	Fuson	JACS 77 (1955)	3776
$C_{18}H_{17}N$	1-(γ -Phenyl)propylisoquinoline	-	-	Ident	Boekelheide	JACS 75 (1953)	3679
$C_{18}H_{17}NO$	8-Piperidinopernaphthenone-7	1109-3045	S	Table	Cromwell	JACS 73 (1951)	1226
$C_{18}H_{17}NO$	9-Piperidinopernaphthenone-7	1109-3045	S	Table	Cromwell	JACS 73 (1951)	1226
$C_{18}H_{17}NOS$	2-(Piperidinomethylene)4,5-benzothioindoxyl	-	-	Group freq	Glanert	JCS - (1955)	30

				Struct	Vaughan	JOC	18 (1953)	405
$C_{18}H_{17}NO_4$	3-Anisylidene-2-anisyliminopropionic acid	-	-	-	Vaughan	JOC	18 (1953)	405
$C_{18}H_{17}NO_4$	1,5-bis(4-Methoxyphenyl)-2,3-pyrroliidinedione	2-16/ μ	Sol	Spec, Group freq Struct, Group freq	Vaughan Vaughan	JOC JOC	18 (1953) 18 (1953)	382 405
$C_{18}H_{17}NO_4$	1-Mesityl-3-m-nitrophenyl-1-propene-1-ol-3-one	2-7/ μ	Sol	Group freq	Barnes	JACS	75 (1953)	479
$C_{18}H_{17}NO_4$	1-Mesityl-3-p-nitrophenyl-1-propene-1-ol-3-one	2-7/ μ	Sol	Group freq	Barnes	JACS	75 (1953)	479
$C_{18}H_{17}NO_4$	1-m-Nitrophenyl-3-mesityl-1-propene-2-ol-3-one	2-7/ μ	Sol	Group freq	Barnes	JACS	75 (1953)	479
$C_{18}H_{17}NO_2$	Benzenephosphonic dianilide	2-21/ μ	S	Spec, Anal	Daasch	AC	23 (1951)	853
$C_{18}H_{17}N_2O_2P$	Phenyl dianilino-phosphorate	-	S, Sol	Group freq Group freq	Bellamy Bell	JCS JACS	- (1952) 76 (1954)	1701 5185
$C_{18}H_{17}N_5O_7$	Bufotenine picrate	-	-	Ident	Stromberg	JACS	76 (1954)	1707
$C_{18}H_{18}$	9-Butylphenanthrene	2-15/ μ	-	Struct, Ident	Cagniant	BSCF	- (1957)	1403
$C_{18}H_{18}$	1,4-Dibenzylbutadiene-1,3	-	-	Quant mech	Mulliken	JCP	7 (1959)	121
$C_{18}H_{18}$	1-Methyl-7-isopropylphenanthrene	1000-1800 3-15/ μ 670-2000	- S, Sol Sol	Spec Spec, Anal Spec	Barnes Laokso Cannon	IEC JCS SA	15 (1943) - (1950) 4 (1951)	659 221 373
$C_{18}H_{18}$	1,3,5,7-Tetramethylanthracene	660-2000	S	Spec	Cannon	SA	4 (1951)	373
$C_{18}H_{18}$	1,3,6,7-Tetramethylanthracene	660-2000	S	Spec	Cannon	SA	4 (1951)	373

$C_{18}H_{18}$	2,3,6,7-Tetramethyl- anthracene	650-2020	S	Spec	Cannon	SA	4 (1951)	373
$C_{18}H_{18}$	4,5,9,10-Tetramethyl- phenanthrene	3-14 μ	Sol, S	Spec, Table	Mosby	JOC	19 (1954)	294
$C_{18}H_{18}ClNO_2$	2-Chloro-3-(4'- diethylaminobuta- 1:3-diethyl)-1,4- naphthaquinone	2200-2000	Sol	Band study	Buckley	JCS	- (1957)	4891
$C_{18}H_{18}N_2$	2-Methyl-2,3'-[2'- methylindyl]-2,3'- dihydroindole	2-12 μ	Sol	Spec, Struct, Band assign	Witkop	JACS	73 (1951)	713
$C_{18}H_{18}N_2O_2$	bis-(N-Benzyl) fumaramide	700-1700	S	Spec	Stafford	AC	21 (1949)	1454
$C_{18}H_{18}N_2O_2$	1,2-Dimethyl-3-(1'- phenyl-2'-nitroethyl) indole	-	S, Sol	Group freq	Noland	JACS	81 (1959)	1203
$C_{18}H_{18}N_2O_2$	2-Methyl-3-(1'-phenyl- 2'-nitropropyl)indole	-	S, Sol	Group freq	Noland	JACS	81 (1959)	1203
$C_{18}H_{18}N_2O_2$	β -Morpholyl- β - (4-pyridyl)styrene	600-4000	Sol	Freq	Katritzky	JCS	- (1958)	4155
$C_{18}H_{18}NO_3$	Trianilinophosphine oxide	-	Sol, S	Group freq Group freq	Bellamy Bell	JCS JACS	- (1952) 76 (1954)	1701 5185
$C_{18}H_{18}N_3SP$	Trianilinophosphine sulfide	-	-	Group freq	Bellamy	JCS	- (1952)	1701
$C_{18}H_{18}N_3B$	Triphenylaminoboron	2-15 μ	L	Freq, Assign	Aubrey	JCS	- (1960)	5239

C ₁₈ H ₁₆ N ₂ B	Triphenylaminoboron	2-15/4	L	Freq. Assign	Aubrey	JCS	(1960)	5239
C ₁₈ H ₁₈ N ₄	N,N'-bis-2'-Cyanoeethylbenzidine	-	-	Group freq, Struct	Braunholtz	JCS	- (1953)	1817
C ₁₈ H ₁₈ N ₄	1,1'-Diphenyl-3,3'-bi-2-pyrazoline	-	-	Band study	Snyder	JACS	74 (1952)	3243
C ₁₈ H ₁₈ N ₄ O	5-(2-Oxocyclohexyl)amino-1-phenylbenzotriazole	-	S	Group freq	Carter	JCS	- (1955)	337
C ₁₈ H ₁₈ N ₄ OS	5-Isopropyl-3-(phenyl-p-azophenyl)-2-thiohydantoin	600-4000	S	Spec, Ident	Epp	AC	29 (1957)	1283
C ₁₈ H ₁₈ N ₄ OS ₂	5-(β-Methylmercaptoethyl)-3-(phenyl-p-azophenyl)-2-thiohydantoin	600-4000	S	Spec, Ident	Epp	AC	29 (1957)	1283
C ₁₈ H ₁₈ N ₄ O ₂	1,5-bis-2'-Cyanoethyl-1,2,3,4,5,6,7,8-octahydro-1,5-diazaanthracene-4,8-dione	-	-	Group freq, Ident	Braunholtz	JCS	- (1953)	1817
C ₁₈ H ₁₈ N ₄ O ₂ S	N-(Phenyl-p-azophenyl)thiocarbonyl-L-proline	600-4000	S	Spec	Epp	AC	29 (1957)	1283
C ₁₈ H ₁₈ N ₄ O ₄	2,3-Benzocyclooct-2-en-1-one 2,4-dinitrophenylhydrazone	-	Sol	Band & Group freq	Ramirez	JACS	75 (1953)	6026
C ₁₈ H ₁₈ N ₄ O ₄	3-Phenylcyclohexanone 2,4-dinitrophenylhydrazone	-	Sol	Band freq	Walker	JACS	77 (1955)	3664
C ₁₈ H ₁₈ N ₄ O ₄ S ₂	2,x-Diamino-p-phenylene-dibenzenesulfonamide	-	-	Ident	Adams	JACS	75 (1953)	3405

$C_{18}H_{18}N_4O_5$	2-Methoxybenzuberone anti-2,4-dinitrophenyl- hydrazone	-	Sol	Band & Group freq	Ramirez	JACS	75 (1953)	6026
$C_{18}H_{16}N_4O_6$	Methyl β -benzoyl- α - methylpropionate 2,4- dinitrophenylhydrazone	-	Sol	Freq	Ramirez	JACS	77 (1955)	3768
$C_{18}H_{18}N_4O_8$	Terrein 2,4-dinitro- phenylhydrazone diacetate	-	Sol	Group freq	Barton	JCS	- (1955)	1028
$C_{18}H_{18}N_6D_{10}$	Di-DNP-L-Lysine	625-5000	S	Spec, Ident	Friedberg	CJC	37 (1959)	1469
$C_{18}H_{18}N_{10}O_{14}$	β - β -Dimethylamino- ethyl-1,2,4-triazole dipicrate	-	-	Ident	Ainsworth	JACS	76 (1954)	5651
$C_{18}H_{18}O$	trans-Benzalaceto- mesitylene	-	Sol	Band freq	Lutz	JACS	77 (1955)	1814
$C_{18}H_{18}O$	α -Equilenone-17	1091-1791	Sol	Band study	Jones	JACS	74 (1952)	80
$C_{18}H_{18}O$	Equilenone-17	-	Sol	Group freq	Jones	JACS	72 (1950)	956
$C_{18}H_{18}O$	Isoequilenone-17	-	Sol	Group freq	Jones	JACS	72 (1950)	956
$C_{18}H_{18}O$	$\Delta^{1,3,5;10,6,8}$ Estrapentaeneone-16	1700 1699-1799	Sol Sol	Freq, Struct, Anal Band study	Jones Jones	JACS JACS	71 (1949) 74 (1952)	241 80
$C_{18}H_{18}O_2$	2,4-Dimethyl-5-hydroxy- 6-allylbenzophenone	-	-	Band freq	Fuson	JACS	73 (1951)	4980
$C_{18}H_{18}O_2$	d-Equilenin	-	S	Band freq	Scheer	JACS	77 (1955)	3300
$C_{18}H_{18}O_2$	1-Mesityl- β -phenyl- propane-2,3-dione	2-7 μ	Sol	Group freq	Barnes	JACS	75 (1953)	479
$C_{18}H_{18}O_2$	1-Mesityl- β -phenyl- 1-propene-1-ol-3-one	2-7 μ	Sol	Group freq	Barnes	JACS	75 (1953)	479

$C_{18}H_{18}O_2$	1-Mesityl-3-phenyl-1-propene-2-ol-1-one	2-7 μ	Sol	Group freq	Barnes	JACS	75 (1953)	479
$C_{18}H_{18}O_2$	1-Mesityl-3-phenyl-2-propen-2-ol-1-one	2-7 μ	Sol	Group freq Band freq, I	Barnes Fuson	JACS JACS	75 (1953) 75 (1953)	479 5952
$C_{18}H_{18}O_2S_2$	Diphenyldithio adipate	2.5-16 μ	Sol	Struct	Nyquist	SA	15 (1959)	514
$C_{18}H_{18}O_3$	p-Duroylbenzoic acid	-	-	Ident	Fuson	JACS	77 (1955)	3776
$C_{18}H_{18}O_4$	7,4'-Dimethoxy-2-methylisoflavanone	-	-	Group freq	Bradbury	JCS	- (1953)	871
$C_{18}H_{18}O_4$	p-Ethylphenylmethyl-carbinyl hydrogen phthalate	2-15 μ	Sol, S	Iso	Eliel	JACS	75 (1953)	4585
$C_{18}H_{18}O_4$	2-Methoxypropionic acid, l-1-p-phenylphenacyl ester	-	Sol	Spec, Ident	Wiberg	JACS	74 (1952)	3891
$C_{18}H_{18}O_5$	dl-7,2'-Dimethoxy-3',4'-methylenedioxyisoflavan	-	-	Spec, Struct	Robertson	JCS	- (1954)	1440
$C_{18}H_{18}O_6$	3-Hydroxy-2-naphthyl-ethylene glycol triacetate	-	S	Band study	Soffer	JACS	74 (1952)	1556
$C_{18}H_{18}O_6$	5-Hydroxy-3',4',7'-trimethoxyflavanone	1550-4000	S	Group freq	Hergert	JACS	75 (1953)	1622
$C_{18}H_{18}O_7$	Diethylene glycol bis-(phenyl carbonate)	2-15 μ	S	Spec	Kendall	AS	7 (1953)	179
$C_{18}H_{18}O_7$	3,5-Dihydroxy-3',4',7'-trimethoxyflavanone	1550-4000	S	Group freq	Hergert	JACS	75 (1953)	1622

$C_{18}H_{19}F_3O_3$		Sol	H bond, Freq	Kaluszyner	JACS	77 (1955)	4164
	Di-p-ethoxyphenyl (trifluoromethyl) carbinol	-					
$C_{18}H_{19}F_3O_3$	3-Acetyl-4:6-benzyl- idene-2-trifluoro- acetyl- α -methyl- glucoside	Sol	Spec, Struct, Group freq	Bourne	JCS	- (1951)	826
$C_{18}H_{19}F_3O_3$	2-Acetyl-4:6-benzyl- idene-3-trifluoro- acetyl- α -methyl- glucoside	Sol	Spec, Struct, Group freq	Bourne	JCS	- (1951)	826
$C_{18}H_{19}N$	Diphenyl ketene-N-n butylimine	-	Group freq, Ident	Stevens	JACS	76 (1954)	4398
$C_{18}H_{19}NO$	N-(γ , γ -Dimethyl- allyl)benzanilide	-	Group freq, Struct	Laner	JACS	76 (1954)	3974
$C_{18}H_{19}NOS$	3,3-Dimethyl-1,4- diphenyl-4-methyl- mercapto-2-azetidinone	-	Spec, Band freq	Holley	JACS	73 (1951)	3172
$C_{18}H_{19}NO_2$	N-Benzyl-N-methyl- β -benzoylpropion- amide	Sol	Band assign, Struct	Cromwell	JACS	80 (1958)	4573
$C_{18}H_{19}NO_2$	Dimethylapoerysopine	-	Ident	Wiesner	JACS	77 (1955)	675
$C_{18}H_{19}NO_3$	Codeinone	-	Ident	Hight	JACS	77 (1955)	4399
$C_{18}H_{19}NO_3S$	4-Benzenesulfonamido- 5,8-dihydro-6,7- dimethyl-1-naphthol	-	Group study	Adams	JACS	74 (1952)	2605
$C_{18}H_{19}NO_4$	Acetylcaranine	-	Band freq, Ident Group freq	Mason Briggs	JACS AC	77 (1955) 29 (1957)	1253 904

Chemical Formula	Compound Name	Group	Group freq	Author	JACS	Year	Page
C ₁₈ H ₁₉ NO ₄	7-(2'-β-Hydroxy-ethyl-4',5'-dimethoxy-phenyl)oxindole	-	-	Wiesner	JACS	77 (1955)	675
C ₁₈ H ₁₉ NO ₅ ·HCl	Dihydroxycodeinone hydrochloride	S	650-5000	Manning	APS	10 (1956)	85
C ₁₈ H ₁₉ N ₂ O ₄	Benzene phosphonic-diphenylhydrazide	S	2-21 μ	Dassch	AC	23 (1951)	853
C ₁₈ H ₁₉ N ₂ O ₃	N-(Phenyl-p-azophenyl)thiocarbonyl-l-glutamine	S	600-4000	Epp	AC	29 (1957)	1283
C ₁₈ H ₁₉ O ₃ B	2-Ethoxycarbonyl-1-methylvinylidiphenylboronite	S	1500-1800	Duncanson	JCS	- (1958)	3652
C ₁₈ H ₂₀	Cyclooctadeca-1,3,10,12-tetrayne	S	3-15 μ	Wolousky	JACS	81 (1959)	4600
C ₁₈ H ₂₀	9,10-Dihydroretene	S, Sol	3-15 μ	Leakso	JCS	- (1950)	221
C ₁₈ H ₂₀	3,6-Dimethyl-1-p-tolylindan	-	7.5-14.5 μ	Pines	JACS	71 (1949)	3534
C ₁₈ H ₂₀	4-Methyl-2,4-diphenyl-pent-2-ene	-	-	Spivy	JCS	- (1953)	1647
C ₁₈ H ₂₀	α-Methylstyrene dimer	L	3-4 μ	Wright	RSI	15 (1944)	22
C ₁₈ H ₂₀	p,p-Tetramethylene-1,2-diphenylethane	Sol	3-12 μ	Cram	JACS	73 (1951)	5691
C ₁₈ H ₂₀	1,1,3-Trimethyl-3-phenylindan	-	-	Spivy	JCS	- (1953)	1647
C ₁₈ H ₂₀ ClNO ₂	Ethyl α-Benzylamino-β-chloro-β-phenyl-propionate	-	2 μ	Nakaniishi	BCSJ	30 (1957)	403

$C_{18}H_{20}ClN_3O_3$	Hexamethylbenzene picryl chloride	3-16 μ	S	Freq, Assign, Spec	Kross	SA	8 (1956)	142
$C_{18}H_{20}F_2O_{14}$	1,10-Decanediol bis-heptafluorobutyrate	-	L	Group freq	Rappaport	JACS	75 (1953)	2695
$C_{18}H_{20}F_2O_{14}$	bis-2,2,3,3,4,4,4-Heptafluorobutyl sebacate	-	L	Group freq	Rappaport	JACS	75 (1953)	2695
$C_{18}H_{20}N_2$	2-Methyl-3-(1'-phenyl-2'-aminopropyl)indole	-	Sol, S	Group freq	Noland	JACS	81 (1959)	1203
$C_{18}H_{20}N.HCl$	1,2-Dimethyl-3-(1'-phenyl-2'-aminoethyl)indole hydrochloride	-	Sol	Group freq	Noland	JACS	81 (1959)	1203
$C_{18}H_{20}N_2O$	5-Benzylxygramine	2.85-9.95 μ	Sol	Table, Group & Band freq, I	Ek	JACS	76 (1954)	5579
$C_{18}H_{20}N_2O$	1-Methyl-2-benzoylaminomethyl tetrahydroquinoline	650-3500	S	Spec, Band freq	Leonard	JACS	73 (1951)	3325
$C_{18}H_{20}N_2O$	1-Methyl-4-benzoylaminomethyl tetrahydroquinoline	650-3500	S	Spec, Band freq	Leonard	JACS	73 (1951)	3325
$C_{18}H_{20}N_2OS$	2-Phenyl-4-ethylloxazolidine phenylthiourea	-	L	Group freq, Struct	Goldberg	JACS	75 (1953)	6260
$C_{18}H_{20}N_2O_2$	σ -Duroylbenzoylhydrazine	-	-	Group freq	Fuson	JACS	74 (1952)	1626
$C_{18}H_{20}N_2O_2S_2.HCl$	Diphenyl disulfide-4,4'-di-(carboxyiminoethyl ether) dihydrochloride	5.5-24 μ	S	Spec, Band freq	Cymerman	JCS	- (1951)	1332

	5.5-24 μ	S	Spec, Band freq,	Cymerman	JCS	- (1951)	1332
$C_{18}H_{20}N_2O_4S_2$ 2HCl Di-(p-carboxyiminoethyl ether hydrochloride)phenyl benzenethiol sulfonate	-	S	Band freq	Berson	JACS	77 (1955)	444
$C_{18}H_{20}N_2O_5$ 3-Acetyl-5-carbethoxy-2,6-dimethyl-4-oxoni-trophenyl-1,4-dihydropyridine	-	S	Band freq	Berson	JACS	77 (1955)	444
$C_{18}H_{20}N_6$ N,N,N',N'-Tetrakis-2'-cyanoethyl-p-phenylene-diamine	-	-	Group study	Braunholtz	JCS	- (1953)	1817
$C_{18}H_{20}O$ Benzylacetomesitylene	-	Sol	Band freq	Lutz	JACS	77 (1955)	1814
$C_{18}H_{20}O$ 1-Mesityl-1-phenyl-propanone	-	-	Group study	Fuson	JACS	68 (1946)	389
$C_{18}H_{20}O$ 2-Mesityl-2-phenyl-vinyl methyl ether	-	-	Group study	Fuson	JACS	68 (1946)	389
$C_{18}H_{20}OS$ Dibenzyl ketone trimethylene hemi-thioacetal	-	Sol	Band freq	Djerassi	JACS	75 (1953)	3704
$C_{18}H_{20}O_2$ 2,4-Diallyl-3,5-dimethyl-4,7-methano-10-oxo-4,7,8,9-tetrahydroinden-1-one	-	S	Group freq	Allen	JOC	20 (1955)	323
$C_{18}H_{20}O_2$ α -Dihydroequilenin	-	Sol	Band freq	Scheer	JACS	77 (1955)	3300
$C_{18}H_{20}O_2$ Equiline	-	S	Band freq	Scheer	JACS	77 (1955)	3300
$C_{18}H_{20}O_3$ Epigibberic acid	-	S,Sol	Group freq	Tarpley	APS	9 (1955)	69
$C_{18}H_{20}O_3$ Gibberic acid	-	S,Sol	Group freq	Cross	JCS	- (1954)	4670
$C_{18}H_{20}O_3$	-	S,Sol	Group freq, Ident	Cross	JCS	- (1954)	4670

$C_{18}H_{20}O_3S$	Dibenzyl ketone trimethylene hemi- thioetal sulfone	-	Sol	Group freq	Djerassi	JACS	75 (1953)	3704
$C_{18}H_{20}O_4$	2,3,6,7-Tetramethoxy- 9,10-dihydroanthracene	2-15 μ	S	Freq	Briggs	AC	29 (1957)	904
$C_{18}H_{21}BrN_2O_4$	3,4',5'-Trimethyl-3', 4-dicarboxy-5'- bromodipyrromethane	2700-3500	Sol	Spec, H bond	Vestling	JACS	61 (1939)	3511
$C_{18}H_{21}BrO_2$	p-Hydroxy-p'-(ω)-bromo- n-butoxy)biphenyl	-	-	Group study	Fuson	JACS	75 (1953)	1325
$C_{18}H_{21}BrO_3$	p-Bromophenacyldeca- cis-2,cis-4-dienoate	-	S	Group assign	Crombie	JCS	- (1955)	1007
$C_{18}H_{21}BrO_3$	p-Bromophenacyl deca- cis-2-trans-4-dienoate	-	S	Group assign	Crombie	JCS	- (1955)	1007
$C_{18}H_{21}BrO_3$	p-Bromophenacyl deca- trans-2, cis-4-dienoate	-	S	Group assign	Crombie	JCS	- (1955)	1007
$C_{18}H_{21}BrO_6$	8-Bromo-5,6-dimethoxy- 3-methyl-5-hydroxy-2, 4,9,10-tetrahydro-11- hydroxy-1-oxaphenan- threneacetic acid γ - lactone	2-12 μ	-	Band freq, Spec	Stork	JACS	73 (1951)	4748
$C_{18}H_{21}BrO_6$	3'-oxa-4'-methyl-4'- methoxy-1,2-cyclopent- eno-5-bromo-7,8-di- methoxy-3,4-dihydro-2- hydroxy-1-naphthalene- acetic acid γ -lactone	2-12 μ	-	Spec, Struct	Stork	JACS	73 (1951)	4748

$C_{18}H_{21}N$	4-Diethylaminostilbene	5-15 μ	S	Spec, Band freq, Table	Thompson	JCS	- (1950)	214
$C_{18}H_{21}N$	4-Dimethylamino-2,2'-dimethylstilbene	5-15 μ	S	Spec, Band freq, Table	Thompson	JCS	- (1950)	214
$C_{18}H_{21}N$	4-Dimethylamino-2',2'-dimethylstilbene	960	Sol	Struct	Orr	SA	8 (1956)	218
$C_{18}H_{21}N$	4-Dimethylamino-2',4'-dimethylstilbene	5-15 μ 960	S Sol	Spec, Band freq, Table Struct	Thompson Orr	JCS SA	- (1950) 8 (1956)	214 218
$C_{18}H_{21}N$	4-Dimethylamino-2',5'-dimethylstilbene (trans)	960	Sol	Struct	Orr	SA	8 (1956)	218
$C_{18}H_{21}N$	4-Dimethylamino-2',6'-dimethylstilbene	5-15 μ	S	Spec, Band freq, Table	Thompson	JCS	- (1950)	214
$C_{18}H_{21}N$	4-Dimethylamino-2',6'-dimethylstilbene (trans)	960	Sol	Struct	Orr	SA	8 (1956)	218
$C_{18}H_{21}N$	4-Dimethylamino-2'-ethylstilbene	5-15 μ	S	Spec, Band freq, Table	Thompson	JCS	- (1950)	214
$C_{18}H_{21}N$	4-Dimethylamino-2'-ethylstilbene (trans)	960	Sol	Struct	Orr	SA	8 (1956)	218
$C_{18}H_{21}N$	Duryl phenyl N-methyl ketimine	-	-	Freq	Fuson	JACS	75 (1953)	5321
$C_{18}H_{21}N$	N- α -Phenylpentylideneberzylamine	600-4000	-	Spec, Assign	Hidalgo	ARS	53B (1957)	491

$C_{18}H_{21}NO_3$	-	S	Group freq	Berson	JACS	77 (1955)	444
3-Acetyl-5-carbethoxy- 2,6-dimethyl-4-phenyl- 1,4-dihydropyridine							
$C_{18}H_{21}NO_3$	650 3-4 μ	Sol S L, Sol	Group freq Spec Freq	Marion Manning Tallent	JACS APS AC	73 (1951) 10 (1956) 28 (1956)	305 85 953
Codeine							
$C_{18}H_{21}NO_3$	650-5000	S	Spec	Manning	APS	10 (1956)	85
Dihydrocodeinone							
$C_{18}H_{21}NO_3 \cdot H_2O$	5-7 μ	S	Anal	Park	AC	23 (1951)	953
Codeine phosphate							
$C_{18}H_{21}NO_3$	-	-	Struct	Stork	JACS	75 (1953)	4373
5-Methyldihydro- morphinone							
$C_{18}H_{21}NO_3$	-	S	Struct, Iso, Ident	Bentley	JCS	- (1952)	967
Δ^7 -Thebainone (Thebainone-A)							
$C_{18}H_{21}NO_3$	-	S	Struct, Iso, Ident	Bentley	JCS	- (1952)	967
β -Thebainone-A							
$C_{18}H_{21}NO_3$	-	S	Struct, Iso, Ident	Bentley	JCS	- (1952)	967
Thebainone-B							
$C_{18}H_{21}NO_3$	-	S	Struct, Iso, Ident	Bentley	JCS	- (1952)	967
Thebainone-C							
$C_{18}H_{21}NO_4$	-	-	Group freq	Hight	JACS	77 (1955)	4399
5,8,9,10,13,14-Hexa- hydro-2,3-dimethoxy- 9-oxo-10-oxo- [5,6- 2',3']-N-methylpyrro- lidenephenanthrene							
$C_{18}H_{21}NO_4$	-	-	Band freq, Struct	Rappoport	JACS	76 (1954)	1796
10-Hydroxydihydro- codeinone-6							
$C_{18}H_{21}NO_4$	-	-	Freq	Findlay	JACS	73 (1951)	4001
8-Hydroxydihydro- codeinone							
$C_{18}H_{21}NO_4$	-	S	Group freq	Wildman	JACS	77 (1955)	1248
Manthidine							

	700-1500	S, Sol	Group freq	AC	29 (1957)	904
$C_{18}H_{21}NO_4$	-	S	Group study	JACS	77 (1955)	1248
	700-1500	Sol	Group freq	AC	29 (1957)	904
Manthine				Briggs		
Ambelline	-	-	Group freq	JACS	77 (1955)	1253
Tazettine	-	S	Group band	JACS	77 (1955)	1248
	700-1500	S, Sol	Group freq	AC	29 (1957)	904
Riddelliine sulfite hydrochloride	-	S	Group freq	JACS	75 (1953)	4638
$C_{18}H_{21}NO_7 \cdot S \cdot HCl$				Adams		
2-Dicarbethoxyphenyl-methyl-4,6-dimethoxy-s-triazine	2-15 μ	Sol	Freq	JACS	82 (1960)	3756
$C_{18}H_{21}NO_6$				Reimschuessel		
Diethyl benzylcarboxyphenyl phosphate	-	-	Freq, Assign	RTC	78 (1959)	190
$C_{18}H_{21}O_6P$				Ketelaar		
9-Butyl-1,2,3,4-tetrahydrophenanthrene	2-15 μ	-	Struct, Ident	BSCF	- (1957)	1403
$C_{18}H_{22}$				Cagniant		
1,3-Diphenyl-2-propylpropane	-	-	Purity of prep	JACS	76 (1954)	522
$C_{18}H_{22}$				Caves		
2,3-Di-p-tolylbutane	-	-	Band freq, Ident	JACS	77 (1955)	343
$C_{18}H_{22}$				Pines		
1-p-tolyl-1-(2-methyl-5-ethylphenyl)ethane	7.5-14.5 μ	-	Spec	JACS	71 (1949)	3534
$C_{18}H_{22}$				Pines		
2,4-Dibromo- β -estradiol	2-15 μ	Sol	Characterisation	SA	16 (1960)	1446
$C_{18}H_{22}Br_2O_2$				Winckelmann		
6-Carbethoxy-6-(4-carbe thoxy)butyl-2-chloro-5-oxo-6,7-dihydro-1,5H-pyridine	-	Sol	Band freq	JACS	77 (1955)	1035
$C_{18}H_{22}ClNO_5$				Ramirez		

$C_{18}H_{22}ClNO_5$	Ethyl 2-(1'-carbethoxy-2'-oxocyclohexyl)methyl-6-chloronicotinate	-	-	Freq, Struct	Ramirez	JOC	19 (1954)	183
$C_{18}H_{22}NO_4$	Dibenzyl morpholino-phosphonate	-	-	Group freq	Bellamy	JCS	- (1952)	1701
$C_{18}H_{22}NO_5$	N-Dibenzylphosphoryl-glycine ethyl ester	3-15 μ	L,S	Spec, Group freq	Li	JACS	77 (1955)	3519
$C_{18}H_{22}N_2$	4,4'-bis-Dimethyl-aminostilbene	5-15 μ	S	Spec, Band freq, Table	Thompson	JCS	- (1950)	214
$C_{18}H_{22}N_2$	p,p'-Diaminobenzyl-N,N'-1,4-n-butane	-	-	Table, Group freq	Fuson	JACS	75 (1953)	1327
$C_{18}H_{22}NO$	4,4'-bis-Dimethyl-aminodesoxybenzoin	-	S	Spec, Group freq, Struct	Allen	JACS	73 (1951)	1841
$C_{18}H_{22}NO_2$	N',N'-bis-(p-Ethoxy-phenyl)acetamide	-	Sol	Anal	Marsh	AC	27 (1955)	636
$C_{18}H_{22}NO_4$	6-(1,3-Dimethyl-2-hydroxycyclohex-2-eryl)-2-amino-4-nitro-3-isopropylbenzoic acid lactone	-	Sol	Group freq	Hansen	JACS	77 (1955)	1643
$C_{18}H_{22}NO_5$	2,4-Dinitro-17-deoxo-estrone	600-4000	S	Spec, H bond, Band study	Pickering	JACS	80 (1956)	680
$C_{18}H_{22}NO_6$	2,4-Dinitro-17B-estradiol	600-4000	S	Spec, H bond, Band study	Pickering	JACS	80 (1958)	680
$C_{18}H_{22}NO_7$	6-(1,3-Dimethyl-2-oxocyclohexyl)-2,4-dinitro-3-isopropylbenzoic acid	-	Sol	Band freq	Hansen	JACS	77 (1955)	1643

Chemical Formula	Compound Name	Wavenumber (cm⁻¹)	Phase	Ident	Journal	Year	Page
C ₁₈ H ₂₂ N ₂ O ₇	N-Methyl-γ-phenyl- amylamine picrate	-	-	Ident	Leonard	75 (1953)	3727
C ₁₈ H ₂₂ O	2-Keto-Δ ¹⁽¹¹⁾ -nor- dehydroabietene	-	-	Group freq	Zeiss	75 (1953)	5935
C ₁₈ H ₂₂ O	1-Mesityl-3-phenyl- propanol-1	-	Sol	Band freq	Lutz	77 (1955)	1814
C ₁₈ H ₂₂ O ₂	Di-(i spropylbenzene) peroxide	680-1760	Sol	Spec, Band freq	Philpotts	24 (1952)	638
C ₁₈ H ₂₂ O ₂	1,5-Dioxo-4,8,9,10- tetramethyl-1,2,3,4, 5,6,7,8-octahydro- phenanthrene	5.7-15.7μ	S	Spec, Table	Mosby	19 (1954)	294
C ₁₈ H ₂₂ O ₂	1,8-Dioxo-4,5,9,10- tetramethyl-1,2,3,4, 5,6,7,8-octahydro- phenanthrene	5.7-15.7μ	S	Spec, Table	Mosby	19 (1954)	294
C ₁₈ H ₂₂ O ₂	cis-Dimesityldiol	3μ	-	H bond	Moriconi	22 (1957)	1651
C ₁₈ H ₂₂ O ₂	Estrone	-	S	Band freq	Scheer	77 (1955)	3300
		-	S, Sol	Group freq	Tarpley	9 (1955)	69
		2.5-3.5μ	-	Group study	Kabasakalian	31 (1959)	375
C ₁₈ H ₂₂ O ₂	Δ ^{4,9(10)} -19-Norandro- stadiene-3,17-dione	-	Sol	Band freq	Zaffaroni	76 (1954)	6210
C ₁₈ H ₂₂ O ₂ S ₂	meso-3,4-Di-(5-acetyl- 2-thienyl)hexane	3-14.5μ	S	Band freq, Group freq	Sice	75 (1953)	1628
C ₁₈ H ₂₂ O ₃	1,4-(5'-Acetoxy-6'-keto- Δ ⁴ -decamethylene) benzene	-	Sol	Group freq	Cram	76 (1954)	2743

$C_{18}H_{22}O_3$	Estrololactone	700-4000 800-1300	S S	H bond, Struct, Spec, Freq, Ident	Gaal Rosenkrantz	SA SA	13 (1958) 13 (1959)	248 291
$C_{18}H_{22}Si_2$	bis-(Allylphenyl) disiloxanediol	-	L	Band freq, Assign	Frisch	JACS	74 (1952)	4584
$C_{18}H_{22}Si_2$	bis-(Benzylvinyl) disiloxanediol	-	L	Band freq, Assign	Frisch	JACS	74 (1952)	4584
$C_{18}H_{22}O_4$	1,4-bis-(2',2''- Diacetyl ethyl) benzene	2.5-6.5 μ	Sol	Freq, Group study	Martin	JACS	81 (1959)	130
$C_{18}H_{22}O_5$	2-Benzoyloxymethylene- 1-carbethoxymethyl- cyclohexanol	2.89-14.55 μ	S	Table, I	Dreiding	JACS	76 (1954)	6388
$C_{18}H_{22}O_5$	11-Carbethoxy-santonin	2-15 μ	Sol, S	Struct	Kanzawa	JACS	80 (1958)	3705
$C_{18}H_{22}O_7$	Diethyl 4,5,6-trimethoxy- indene-2,3-dicarboxylate	-	Sol	Group freq	Koo John	JACS	75 (1953)	1889
$C_{18}H_{22}O_8$	2,3-Diacetyl-4,6- benzylidene- α - methylglucoside	1720-1820	Sol	Spec, Struct,	Bourne	JCS	- (1951)	826
$C_{18}H_{22}O_{11}$	Asperuloside	727-3497	S	Group freq, Table, I	Briggs	JCS	- (1954)	4182
$C_{18}H_{22}Si$	Diphenylcyclohexyl- silane	2-16 μ	Sol	Freq	Kniseley	SA	15 (1959)	651
$C_{18}H_{23}BrO_2$	2-Bromo- β -estradiol	2-15 μ	Sol	Characterisation	Winckelmann	SA	16 (1960)	1446
$C_{18}H_{25}BrO_2$	4-Bromo- β -estradiol	2-15 μ	Sol	Characterisation	Winckelmann	SA	16 (1960)	1446
$C_{18}H_{23}BrO_5$	2-Bromo derivative of 11-carbethoxy-1,2- dihydro-santonin	2-15 μ	S, Sol	Struct	Kanzawa	JACS	80 (1958)	3705

C ₁₈ H ₂₃ NO ₂	2,2'-Dihydroxy-3,3', 5,5'-tetraamethyl-di- benzylamine	-	-	Spec, Freq, Assign	Igonin	DANS	121 (1958)	652
C ₁₈ H ₂₃ NO ₂	5-Pelargonyl-8-quinolinol	-	-	Struct	Edgerton	JACS	74 (1952)	5209
C ₁₈ H ₂₃ NO ₃	1-Benzyl-4-ethyl-4-s- amyl-2,3,5-pyrrolidinetrione	-	-	Spec	Skinner	JACS	72 (1950)	5569
C ₁₈ H ₂₃ NO ₃	Dihydrocodeine	3-4/μ	L, Sol	Group freq	Tallent	AC	28 (1956)	953
C ₁₈ H ₂₃ NO ₃	Dihydrothebainone (racemic)	- 2-15/μ	- -	Spec Ident	Elad Elad	JACS JCS	76 (1954) - (1954)	312 3052
C ₁₈ H ₂₃ NO ₃	10-cis-Hydroxydihydro- desoxycodeine	-	Sol	H bond	Rappaport	JACS	77 (1955)	4330
C ₁₈ H ₂₃ NO ₃	10-trans-Hydroxydihydro- desoxycodeine	-	Sol	Group freq	Rappaport	JACS	77 (1955)	4330
C ₁₈ H ₂₃ NO ₃	2-Nitro-17-deoxo- estrone	600-4000	S	Spec, H bond, Band study	Pickering	JACS	80 (1958)	680
C ₁₈ H ₂₃ NO ₃	4-Nitro-17-deoxo- estrone	600-4000	S	Spec, H bond, Band study	Pickering	JACS	80 (1958)	680
C ₁₈ H ₂₃ NO ₃	1-(2-Phenylethyl-4- ethyl-4-n-butyl-2,3, 5-pyrrolidinetriene	-	-	Absorption	Skinner	JACS	72 (1950)	5569
C ₁₈ H ₂₃ NO ₄	8-Hydroxydihydro- codeine	-	-	Freq	Findlay	JACS	73 (1951)	4001
C ₁₈ H ₂₃ NO ₅	6-(1,3-Dimethyl-2- oxocyclohexyl)-3- isopropyl-4-nitro- benzoic acid lactol	-	Sol	Group freq	Hansen	JACS	77 (1955)	1643

$C_{18}H_{23}NO_5$	α -Longilobine	750-4000	S	Spec Anal Ident Group freq	Adams Adams Adams Adams	JACS JACS JACS JACS	71 (1949) 71 (1949) 73 (1951) 75 (1953)	1180 1956 134 4638
$C_{18}H_{23}NO_6$	Riddelline	-	-	Anal Group freq	Adams Adams	JACS JACS	71 (1949) 75 (1953)	1956 4638
$C_{18}H_{23}NO$	2,6,6-Tricyanoethyl- isophorone	5.5-8 μ	Sol	Group freq	Brunson	JACS	75 (1953)	3585
$C_{18}H_{23}O_3P$	Di-O-tolyl butyl phosphite	870	Sol	Band study	Whiffen	TFS	41 (1945)	200
$C_{18}H_{23}O_3P$	Di-O-tolyl butane phosphonate	940	Sol	Band study	Whiffen	TFS	41 (1945)	200
$C_{18}H_{24}$	8-Octylnaphthalene	2-15 μ	-	Struct, Ident	Cagniant	BSCF	- (1957)	1403
$C_{18}H_{24}$	1,3-Spiro [4,4] nonadiene dimer	-	-	Group freq	Cram	JACS	77 (1955)	3576
$C_{18}H_{24}Cl_2NO_2$	2,5-Dichloro-3,6-bis- 2-diethylaminovinyl- benzoquinone	2200-8000	Sol	Band study	Buckley	JCS	- (1957)	4891
$C_{18}H_{24}NO_4$	cis-2-Methyl-2-carbe- thoxy- cyclopentane- 1-acetone-2, 4-dini- trophenyldiazone	-	-	Group study, Band freq	Conroy	JACS	74 (1952)	3046
$C_{18}H_{24}NO_5$	4-Acetamido-6-tri- acetyl-D-xylosidamino- 2-methylthiopyrimidine	1450-1800	S	H bond, Spec	Brown	JCS	- (1948)	2265
$C_{18}H_{24}NO_5$	4-(Triacetyl-D-xylosida- mino)-6-acetamido-2- methylthiopyrimidine	2-15 μ	S	Spec, Group freq, Assign	Brownlie	JCS	- (1950)	3062

C ₁₈ H ₂₄ N ₂ O ₆	6-Dimethylamino-9-(3'-amino-3'-deoxy-β-D-ribofuranosyl)purine triacetate	-	-	Ident	Baker	JACS	77 (1955)	12
C ₁₈ H ₂₄ N ₂ O ₈	1-Amino-2,6-dicyano-2,6-dimethylpiperidine tetrazone	2-15 μ	-	Struct	Overberger	JACS	77 (1955)	4097
C ₁₈ H ₂₄ O	17-Deoxoestrone	600-4000	S	Spec, H bond, Band study	Pickering	JACS	80 (1958)	680
C ₁₈ H ₂₄ O	Δ ^{5,7,9} -Estratrienol-17β	1650-1800	Sol	Group Study	Jones	JACS	72 (1950)	956
C ₁₈ H ₂₄ O	2-[β-m-Isopropylphenethyl]-3-methyl-2-cyclohexenone	-	Sol	Group freq	Jones	JACS	74 (1952)	5648
C ₁₈ H ₂₄ O	2-[β-m-Isopropylphenethyl]-3-methyl-2-cyclohexenone	-	S	Band freq	Scheer	JACS	77 (1955)	3300
C ₁₈ H ₂₄ O	1-Ketonordehydroabietane	2-16 μ	-	Freq	Stork	JACS	73 (1951)	3544
C ₁₈ H ₂₄ O	2-Ketonordehydroabietane	-	-	Spec, Group freq	Zeiss	JACS	75 (1953)	5935
C ₁₈ H ₂₄ O	1-Oxo-bis-nordehydroabietane	-	-	Band study	Zeiss	JACS	75 (1953)	5935
C ₁₈ H ₂₄ O ₂	2,5-Dicyclohexyl-p-benzoquinone	2-14 μ	Sol	Ident, Band freq	Stork	JACS	73 (1951)	3544
C ₁₈ H ₂₄ O ₂	β-Estradiol	-	L	Ident, Struct	Jacobsen	JACS	75 (1953)	4709
C ₁₈ H ₂₄ O ₂	β-Estradiol	-	-	Substitution effect Assign, Shift	Flagg	NWS	43 (1950)	467
C ₁₈ H ₂₄ O ₂	β-Estradiol	650-3700	Sol	Band freq	Flagg	A	626 (1959)	215
C ₁₈ H ₂₄ O ₂	β-Estradiol	600-4000	S	Spec, Assign	Scheer	JACS	77 (1955)	3300
C ₁₈ H ₂₄ O ₂	β-Estradiol	600-4000	S	Spec, H bond, Band study	Smakula	SA	9 (1957)	346
C ₁₈ H ₂₄ O ₂	β-Estradiol	600-4000	S	Spec, H bond, Band study	Pickering	JACS	80 (1958)	680

$C_{18}H_{24}O_2$	dl-5,7,9-Estratriene $3\beta,17\beta$ -diol	2.5-3.5 μ 2-15 μ	Sol Sol	Group study Characterisation	Kabasakalian Winckelmann	AC SA	31 (1959) 16 (1960)	375 1496
$C_{18}H_{24}O$	$\Delta^{1,3,5,10}$ -Estra- trienediol-3,17 (α -Estradiol)	-	S	Band freq	Scheer	JACS	77 (1955)	3300
$C_{18}H_{24}O_2$	Δ^4 -Estrenedione-3,17	-	-	Assign Spec, Bands	Jones Jones	JACS JACS	70 (1948) 72 (1950)	2024 86
$C_{18}H_{24}O_2$	Δ^4 -Estrenedione-3,17	-	Sol	Group freq	Jones	JACS	72 (1950)	956
$C_{18}H_{24}O_3$	1,3,5(10)-Estratriene- 3,16 α ,17 β -triol (estriol)	-	Sol	Table, Group freq	Jones	JACS	74 (1952)	5648
$C_{18}H_{24}O_3$	2-Hydroxy-3,6-di- cyclohexyl-p-benzo- quinone	-	Sol	Group freq	Wilds	JACS	75 (1953)	5366
$C_{18}H_{24}O_3$	Δ^4 -19-Norandrostene- 3,17-dione-11 β -ol	-	Sol	Band freq	Djerassi	JACS	76 (1954)	4092
$C_{18}H_{24}O_4$	6,7a,8,9,10,11,11a- Octahydro-1,2,3-tri- methoxy-5-keto-5H- cyclohepta[a] naphthalene	2.5-3.5 μ	S	Band freq Group study	Scheer Kabasakalian	JACS AC	77 (1955) 31 (1959)	3300 375
$C_{18}H_{24}O_3$	6,7a,8,9,10,11,11a- Octahydro-1,2,3-tri- methoxy-5-keto-5H- cyclohepta[a] naphthalene	-	Sol	Assign, Shift	Flaig	A	626 (1959)	215
$C_{18}H_{24}O_4$	6,7a,8,9,10,11,11a- Octahydro-1,2,3-tri- methoxy-5-keto-5H- cyclohepta[a] naphthalene	-	Sol	Band freq	Zaffaroni	JACS	76 (1954)	6210
$C_{18}H_{24}O_4$	6,7a,8,9,10,11,11a- Octahydro-1,2,3-tri- methoxy-5-keto-5H- cyclohepta[a] naphthalene	855-2900	Sol	Table	Gutsche	JACS	76 (1954)	1771
$C_{18}H_{24}O_4$	6,7a,8,9,10,11,11a- Octahydro-1,2,3-tri- methoxy-5-keto-5H- cyclohepta[a] naphthalene	844-2900	Sol	Table	Gutsche	JACS	76 (1954)	1771

$C_{18}H_{24}O_5$	2-15/ μ	S, Sol	Struct	Kanzawa	JACS	80 (1958)	3705
11-Carbethoxy-1,2-dihydrosantonin							
$C_{18}H_{24}O_6$	2-15/ μ	L	Spec	Kendall	APS	7 (1953)	179
Butyl phthalyl butylglycolate (santocizer B-16)							
$C_{18}H_{24}O_6$	-	Sol	Group freq	Dauben	JACS	77 (1955)	606
ψ -Santonin cathylate							
$C_{18}H_{24}O_7$	-	Sol	Group freq	Koo	JACS	75 (1953)	1889
Diethyl 4,5,6-trimethoxyindane-2,3-dicarboxylate							
$C_{18}H_{24}O_{12}$	-	S	Group & Band freq	Barker	JCS	- (1954)	4211
Scyllo-Inositol hexacetate							
$C_{18}H_{25}NO$	-	S	Group freq	Crombie	JCS	- (1955)	999
N-Isobutyltetradeca-trans-2,trans-4-diene-8,10-diyamide							
$C_{18}H_{25}NO.HBr$	-	-	Struct	Edgerton	JACS	74 (1952)	5209
5-Nonyl-8-quinolinol hydrobromide							
$C_{18}H_{25}NO_2$	-	Sol	Group freq	Hansen	JACS	77 (1955)	1643
6-(1,3-Dimethyl-2-hydroxycyclohexyl)-4-amino-3-isopropylbenzoic acid lactone							
$C_{18}H_{25}NO_5$	650-3800	S, Sol	Spec, Band freq	Adams	JACS	75 (1953)	4631
Integerrimine							
$C_{18}H_{25}NO_5$	650-3800	S, Sol	Spec, Band freq	Adams	JACS	75 (1953)	4631
Usaramoensine							
$C_{18}H_{25}NO_6$	-	-	Group freq	Adams	JACS	75 (1953)	4638
Dihydrorididelline							
$C_{18}H_{25}NO_6$	-	-	Band freq	Ramirez	JOC	19 (1954)	183
Ethyl 2-(1'-carbethoxy-2'-oxocyclohexyl)methyl-1,4,5,6-tetrahydro-6-oxonicotinate							
Jacobine	2-15/ μ	S, L	Spec	Bradbury	AJC	9 (1956)	258

$C_{18}H_{25}NO_6$	β -Longilobine	950-4000	S	Anal, Spec Anal Band freq	Adams Adams Adams	JACS JACS JACS	71 (1949) 71 (1949) 75 (1953)	1180 1956 4638
$C_{18}H_{25}NO_6$	Senecionine	650-3600	S, Sol	Spec, Struct, Anal Anal	Adams Adams	JACS JACS	71 (1949) 71 (1949)	1953 1956
$C_{18}H_{26}$	Octahydroretene	3-15 μ	Sol	Spec, Band freq, Ident Spec, Anal	Adams Leakso	JACS JCS	75 (1955) - (1950)	4631 221
$C_{18}H_{26}ClNO_6$	Jaconine	2-15 μ	S, L	Spec	Bradbury	AJC	9 (1956)	258
$C_{18}H_{26}N_2H_2SO_4$	d-Amphetamine sulphate	650-4000	-	Spec	Chatten	AC	31 (1959)	1581
$C_{18}H_{26}N_2H_2SO_4$	dl-Amphetamine sulphate	650-4000	-	Spec	Chatten	AC	31 (1959)	1581
$C_{18}H_{26}N_2O_2$	6-1,3-Dimethyl-2-hydroxycyclohexyl)-2,4-diamino-3-iso-propyl benzoic acid lactone	-	Sol	Ident	Hansen	JACS	77 (1955)	1643
$C_{18}H_{26}N_2O_4$	Benzoylvalylvaline, methyl ester "natural"	650-3600	S	Spec	Hinman	JACS	72 (1950)	1620
$C_{18}H_{26}N_2O_4$	Benzoyl-D-valyl-D-valine, methyl ester	650-3600	S	Spec	Hinman	JACS	72 (1950)	1620
$C_{18}H_{26}N_2O_4$	Benzoyl-D-valyl-D-valine, methyl ester	650-3600	S	Spec	Hinman	JACS	72 (1950)	1620
	+							
	Benzoyl-L-valyl-L-valine, methyl ester							

$C_{18}H_{26}N_2O_4$	650-3600	S	Spec	Hinman	JACS	72 (1950)	1620
Benzoyl-D-valyl-L-valine, methyl ester							
⁺							
$C_{18}H_{26}O$	3 μ	Sol, L, S	H bond	Sears	JACS	71 (1949)	4110
Benzoyl-L-valyl-D-valine methyl ester							
$C_{18}H_{26}O_2$	-	S	Group freq	Allen	JOC	20 (1955)	323
2,4-Dimethyl-6-iso-bornylphenol							
$C_{18}H_{26}O_2$	-	Sol	Group freq	Jones	JACS	72 (1950)	956
3,5-Dimethyl-1,8-dioxo-2,4-di-n-propyl-3a,4,5,6,7,7a-hexahydro-4,7-methanoindene							
$C_{18}H_{26}O$	-	Sol	Group freq	Wilds	JACS	75 (1953)	5366
Estranediolone-3,17							
$C_{18}H_{26}O_2$	-	S	Group freq	Wilds	JACS	75 (1953)	5366
17 β -Hydroxy-4-estren-3-one							
$C_{18}H_{26}O$	-	S	Group freq	Cram	JACS	76 (1954)	6132
6-Hydroxy-7-keto-1,12-p-phenylenedodecane							
$C_{18}H_{26}O_2$	677-3340	S	Table	Ungnade	JACS	69 (1947)	2629
d1-Y-3-(p-Hydroxy-phenyl)-4-(4'-keto-cyclohexyl)hexane							
$C_{18}H_{26}O_3$	-	-	Ident	Ayer	JCS	- (1955)	2227
1-Acetoxy-5,9,11-trimethyltricyclo-[7,3,1,0 ^{2,7}]tride C-2(7)-en-3-one							
$C_{18}H_{26}O_4$	1050-1800	-	Freq, Spec	Barnes	IEC	15 (1943)	659
Dianyl phthalate	-	L	Spec	Kapff	JCP	16 (1948)	446
	-	L	Band freq, I	Kendall	APS	7 (1953)	179

$C_{18}H_{26}O_4$	2 α ,4b-Dimethyl-7-ethylenedioxy-1,2,3,4,4a α ,4b,5,6,7,8,10,10a β -dodecahydrophenanthrene-4 β -ol-1-one	-	S	Group freq, Ident	Lukes	JACS 75 (1953)	1707
$C_{18}H_{26}O_4$	4 β ,4b-Dimethyl-7-ethylenedioxy-1,2,3,4,4a α ,4b,5,6,7,8,10,10a β -dodecahydrophenanthrene-4 β -ol-1-one	-	S	Group freq, Ident	Lukes	JACS 75 (1953)	1707
$C_{18}H_{26}O_5$	4b-Methyl-2-hydroxy-methyl-7-ethylenedioxy-1,2,3,4,4a α ,4b,5,6,7,8,10,10a β -dodecahydrophenanthrene-4 β -ol-1-one	-	S	Group freq	Lukes	JACS 75 (1953)	1707
$C_{18}H_{26}O_8$	Tetraethyl hex-3-yne-1,1,6,6-tetracarboxylate	-	Sol	Group study	Jones	JCS - (1954)	3208
$C_{18}H_{26}O_{12}$	Mannitol hexaacetate	8-15 μ	S	Spec	Kuhn	AC 22 (1950)	276
$C_{18}H_{26}O_{12}$	Sorbitol hexaacetate	8-15 μ	S	Spec	Kuhn	AC 22 (1950)	276
$C_{18}H_{27}NO_3$	N-(4-Hydroxy-3-methoxybenzyl)-8-methyl-non-trans-6-enamide	718-3090	S	Table, Group freq	Crombie	JCS - (1955)	1025
$C_{18}H_{27}NO_4$	Ethyl α -(N-ethyl-N- γ '-carbethoxypropylamino)phenylacetate	-	-	Group freq	Leonard	JACS 75 (1953)	3727
$C_{18}H_{27}NS$	2-Undecylbenzothiazole	2-16 μ	L	Spec	Du Brow	JACS 74 (1952)	6241

C ₁₈ H ₂₈	p-Dodecamethylene- benzene	-	-	Ident	Cram	JACS	76 (1954)	6132
C ₁₈ H ₂₈ N ₂ O ₂	N(1-Piperidinoinso- propyl)-N-carbethoxy- benzylamine	-	-	Spec	Lazizza	GCI	90 (1960)	848
C ₁₈ H ₂₈ O	Nonyl p-xylol ketone	1600-1800	Sol	Group freq	Fuson	JACS	76 (1954)	2526
C ₁₈ H ₂₈ O ₂	d1-3-(p-Hydroxy- phenyl)-4-(4c- hydroxycyclohexyl) hexane	705-3444	S	Table	Ungnade	JACS	69 (1947)	2629
C ₁₈ H ₂₈ O ₂	d1-3-(p-Hydroxyphenyl)- 4-(4t-hydroxycyclo- hexyl)hexane	686-3404	S	Table	Ungnade	JACS	69 (1947)	2629
C ₁₈ H ₂₈ O ₂	9,12-Octadecadiynoic acid	2-16 μ	Sol	Spec	Walborsky	JACS	73 (1951)	2590
C ₁₈ H ₂₈ O ₂	α-Parinaric acid	2.5-15 μ	Sol	Spec	Ahlers	JAPC	3 (1953)	433
C ₁₈ H ₂₈ O ₂	β-Parinaric acid	2.5-15 μ	Sol	Spec	Ahlers	JAPC	3 (1953)	433
C ₁₈ H ₂₈ O ₃	2β-Acetoxy-4a,7- dimethylperhydro- 8-phenanthrone	-	-	Spec	Reufrow	JACS	75 (1953)	1347
C ₁₈ H ₂₈ O ₃	5,17β-Dihydroxy-3, 5-seco-4-nor-androstan- 3-oic acid-3,5-lactone	1000-1900	Sol	Spec, Freq	Jones	JACS	81 (1959)	5242
C ₁₈ H ₂₈ O ₃	4-(4-Hydroxycyclo- hexyl)-3-(4-hydroxy- phenyl)-2-hexanol	2-13 μ	S	Spec, Struct	Burckhalter	JACS	74 (1952)	187
C ₁₈ H ₂₈ O ₃	3,4-bis-(4-Oxocyclo- hexyl)-2-hexanone	2-13 μ	S	Spec, Struct	Burckhalter	JACS	74 (1952)	187
C ₁₈ H ₂₈ O ₂	D-Galactose dimethyl- acetal pentaacetate	8-15 μ	S	Spec	Kuhn	AC	22 (1950)	276

$C_{18}H_{29}NO_2$	Dicyclohexylamine 1,6-hexadiene-1,6- diol adduct	1000-3750	S	H bond	Nakagawa	BCSJ	33 (1960)	433
$C_{18}H_{29}NO_2$	N-Phenyllaurino hydroxamate	700-4000	S, Sol	Spec, H bond	Hadzi	SA	10 (1958)	38
$C_{18}H_{30}$	1,3-Dimethyl-2-n- decylbenzene	-	-	Freq	Schlatter	JACS	76 (1954)	4952
$C_{18}H_{30}$	9,9-Dimethyl-10- phenyldecane	2-15 μ	L	Spec, Struct	Hawkes	SA	16 (1960)	633
$C_{18}H_{30}$	n-Dodecylbenzene	2-16 μ 2-15 μ	L L	Spec Spec, Struct	Gray Hawkes	JOC SA	20 (1955) 16 (1960)	51 633
$C_{18}H_{30}$	6-Ethyl-10-phenyl- decane	2-15 μ	L	Spec, truct	Hawkes	SA	16 (1960)	633
$C_{18}H_{30}$	Hexaethylbenzene	700-3100	L, S	Spec	Richards	PRS	195 (1948)	1
$C_{18}H_{30}$	2-Methyl-2-phenyl- undecane	2-15 μ	L	Spec, Struct	Hawkes	SA	16 (1960)	633
$C_{18}H_{30}$	2-Methyl-11-phenyl- undecane	2-15 μ	L	Spec, Struct	Hawkes	SA	16 (1960)	633
$C_{18}H_{30}$	4-Methyl-4-phenyl- undecane	2-15 μ	L	Spec, Struct	Hawkes	SA	16 (1960)	633
$C_{18}H_{30}$	2-Phenyl dodecane	2-15.5 μ 2-15 μ	L L	Spec, Struct, Ident Spec, Struct	Lennehan Hawkes	JOC SA	19 (1954) 16 (1960)	463 633
$C_{18}H_{30}$	4-Phenyl dodecane	2-15 μ	L	Spec, Struct	Hawkes	SA	16 (1960)	633
$C_{18}H_{30}$	5-Phenyl dodecane	2-16 μ 2-15 μ	L L	Spec Spec, Struct	Gray Hawkes	JOC SA	20 (1955) 16 (1960)	51 633
$C_{18}H_{30}$	2,5,7,7-Tetramethyl- 2-phenyl octane	2-15 μ	L	Spec, Struct	Hawkes	SA	16 (1960)	633

$C_{18}H_{30}$	1,3,5-Tri-n-butyl-benzene	-	Sol	Spec, Freq	McCaulay	JACS	76 (1954)	2354
$C_{18}H_{30}$	1,3,5-Tri-sec-butyl-benzene	-	Sol	Spec, Freq	McCaulay	JACS	76 (1954)	2354
$C_{18}H_{30}$	1,3,5-Tri-t-butyl-benzene	2-15 μ	Sol	Ident Spec, Group freq	Bartlett McCaulay	JACS JACS	76 (1954) 76 (1954)	2349 2354
$C_{18}H_{30}^D$	8,8,11,11-Tetra-deutero-9-octadecyne	2-10.8 μ	-	Spec	Max	JAOC	28 (1951)	110
$C_{18}H_{30}Br_2O_2$	9,10,12,13,15,16-Hexabromostearic acid	475-1800	S	Spec, Band freq	Sinclair	JACS	74 (1952)	2578
$C_{18}H_{30}^O$	2,6-Di-t-butyl-4-s-butylphenol	3 μ	Sol	H bond, Band study	Sears	JACS	71 (1949)	4110
$C_{18}H_{30}^O$	Estranol-17 β	1650-1800	Sol	Group study Table, Group freq	Jones Jones	JACS JACS	72 (1950) 74 (1952)	956 5648
$C_{18}H_{30}^O$	2,4,6-Tri-s-butyl-phenol	900-1030 3500-3800 650-1400	Sol Sol Sol	Freq Freq Spec	Puttnam Puttnam Shrewsbury	JCS JCS SA	- - 16 (1960)	5100 2034 1294
$C_{18}H_{30}^O$	2,4,6-Tri-t-butyl-phenol	- 3 μ 5-6 μ - 3200-3800 9.52 μ 13.0 μ 3570-3700	- Sol Sol - Sol Sol Sol Sol	Freq, Shift H bond Spec Ident Spec Anal Anal Freq Spec Freq Spec	Coggeshall Sears Young Bartlett Cook Curry Scheddel Flynn Goddu Puttnam Shrewsbury	JACS JACS AC JACS JACS AC AC AJC JACS JCS SA	69 (1947) 71 (1949) 23 (1951) 76 (1954) 77 (1955) 29 (1957) 29 (1957) 12 (1959) 82 (1960) - (1960) 16 (1960)	1620 4110 709 2349 1672 1717 1552 575 4533 5100 1294
$C_{18}H_{30}^O$	2,4,6-Triisopropyl-phenyl isopropyl ether	2-16 μ	Sol	Spec, Anal	Morton	JACS	76 (1954)	2973

				Spec, Config.	Renfrow	JACS		
$C_{18}H_{30}O_2$	2 α -Acetoxy-4a,7-dimethylperhydrophenanthrene	-	-			JACS	75 (1953)	1347
$C_{18}H_{30}O_2$	Linolenic acid	S	1100-1400	Spec	Jones	JACS	74 (1952)	2575
		L	650-3500	Spec, Band freq	Sinclair	JACS	74 (1952)	2575
		L	2.5-15 μ	Spec	Ahlers	JAPC	3 (1953)	433
		Sol	0.9-3 μ	Spec	Holman	AC	28 (1953)	1533
$C_{18}H_{30}O_2$	α -Elaeostearic acid	Sol	2.5-15 μ	Spec	Ahlers	JAPC	3 (1953)	433
		S	700-1000	Struct	Crombie	JCS	- (1954)	2816
		-	-	Freq	Wendland	AC	26 (1954)	1469
		-	-	Band freq	Crombie	JCS	- (1955)	995
$C_{18}H_{30}O_2$	β -Elaeostearic acid	Sol	2.5-15 μ	Spec	Ahlers	JAPC	3 (1953)	433
		S	700-1000	Struct	Crombie	JCS	- (1954)	2816
		-	-	Freq	Wendland	AC	26 (1954)	1469
		S	-	Freq	Crombie	JCS	- (1955)	995
$C_{18}H_{30}O_2$	Estranediol-3,17 β	Sol	1650-1800	Group study	Jones	JACS	72 (1950)	956
$C_{18}H_{30}O_2$	9,12,15-Linolenalaidic acid	Sol	2.5-15 μ	Spec	Ahlers	JAPC	3 (1953)	433
$C_{18}H_{30}O_2$	trans-Octadec-11-en-9-ynoic acid	Sol	-	Band freq, Ident	Grigor	JCS	- (1955)	1069
$C_{18}H_{30}O_2$	Punicic acid	Sol	2.5-15 μ	Struct, Group study	Ahler	N	173 (1954)	1045
$C_{18}H_{30}O_3$	18-Hydroxyoctadecacis-9-trans-11-trans-13-trienoic acid	S	700-1000	Table, Group freq, Struct	Crombie	JCS	- (1954)	2816
		-	-	Band freq	Crombie	JCS	- (1955)	995
$C_{18}H_{30}O_3$	18-Hydroxyoctadecatrans-9-trans-11-trans-13-trienoic acid	S	700-1000	Table, Group freq,	Crombie	JCS	- (1954)	2816
$C_{18}H_{30}O_3$	12-Oxooc tadeca-9,10-	S	-	Group freq	Crombie	JCS	- (1955)	1740

C ₁₈ H ₃₀ O ₄	-	L,S	Anal., Group freq	Loshaek	JACS	75 (1953)	3544
Decamethyleneglycol dimethacrylate	-						
C ₁₈ H ₃₀ O ₈ S ₂	8-15 μ	S	Spec	Kuhn	AC	22 (1950)	276
L-Rhamnose diethyl mercaptal tetraacetate							
C ₁₈ H ₃₁ O ₄ P	-	-	Group freq	Bellamy	JCS	- (1952)	1701
Diethyl p-(2-ethylhexyl)phenylphosphate							
C ₁₈ H ₃₂	12.6-14.7 μ	L,Sol	Struct, Group study	Francis	AC	25 (1953)	1466
9-n-Butyl-(tetradecahydroanthracene)							
C ₁₈ H ₃₂	3-15 μ	L,Sol	Spec, Anal	Loakso	JCS	- (1950)	221
Perhydroretene							
C ₁₈ H ₃₂ D ₂ O ₂	-	-	Group freq	Khan	JACS	74 (1952)	3018
9,10-Dideuterooleic acid							
C ₁₈ H ₃₂ D ₄	2-10.8 μ	-	Spec	Max	JAOC	28 (1951)	110
8,8,11,11-Tetra-deutero-cis-9-octadecene							
C ₁₈ H ₃₂ D ₄ O ₂	9 μ	-	Freq	Coblentz	PR	49 (1936)	869A
6,7,9,10-Tetradeutero-stearic acid							
C ₁₈ H ₃₂ Br ₄ O ₂	1100-1400 475-1800	S S,Sol	Spec Spec, Freq, Anal	Jones Sirclair	JACS JACS	74 (1952) 74 (1952)	2575 2578
9,10,12,13-Tetra-bromo-stearic acid							
C ₁₈ H ₃₂ N ₂	-	-	Band freq	Leonard	JACS	77 (1955)	1552
1-6-n-Propylsparteine							
C ₁₈ H ₃₂ N ₂ O ₇	-	S	Struct comparison	Zahn	A	636 (1960)	132
Penta-L-alanyl-L-alanine							
C ₁₈ H ₃₂ O	2.5-15 μ	L	Group freq	Ahlers	JCS	- (1952)	5039
Ximeranyl alcohol							
C ₁₈ H ₃₂ OSi	-	-	Inductive effect	Josien	CPR	249 (1959)	826
Trimethylsilylnonyl phenyl ether							
C ₁₈ H ₃₂ O ₂	-	-	Ident	Mislow	JACS	77 (1955)	3807
Chaulmoogric acid							

$C_{18}H_{32}O_2$	Linoleic acid	2-16 μ 1100-1400 650-3500 - - 0.9-3 μ	Sol S S,L - - Sol	Spec Spec, Band study Spec, Freq, Anal Spec Ident Spec	Walborsky Jones Sinclair Ahlers Howton Holman	JACS JACS JACS JAPC JACS AC	73 (1951) 74 (1952) 74 (1952) 3 (1953) 76 (1954) 28 (1956)	2590 2575 2578 433 4970 1533
$C_{18}H_{32}O_2$	9,11-Linoleic acid (cis-trans)	2.5-15 μ	L	Spec	Ahlers	JAPC	3 (1953)	433
$C_{18}H_{32}O_2$	9,11-Linoleic acid (trans-trans)	2.5-15 μ	L	Spec	Ahlers	JAPC	3 (1953)	433
$C_{18}H_{32}O_2$	trans-10-cis-12-Linoleic acid	2.5-15 μ	L	Spec Freq	Ahlers Wendland	JAPC AC	3 (1953) 26 (1954)	433 1469
$C_{18}H_{32}O_2$	trans-10-trans-12-Linoleic acid	2.5-15 μ	L	Spec Freq	Ahlers Wendland	JAPC AC	3 (1953) 26 (1954)	433 1469
$C_{18}H_{32}O_2$	9,12-Linolelaic acid	2.5-15 μ	L	Spec	Ahlers	JAPC	3 (1953)	433
$C_{18}H_{32}O_2$	trans-9-trans-12-Linolelaic acid	-	-	Freq	Wendland	AC	26 (1954)	1469
$C_{18}H_{32}O_2$	2,3,4,4,7,7,8,9-Octamethyl-5-hydroxy-6-keto-2,8-decadiene	-	-	Group freq	Van Heyningen	JACS	77 (1955)	4016
$C_{18}H_{32}O_2$	Stearolic acid	2-16 μ 0.9-3 μ	Sol Sol	Spec Spec	Welborsky Holman	JACS AC	73 (1951) 28 (1956)	2590 1533
$C_{18}H_{32}O_3$	12-Ketoelaidic acid	0.9-3 μ 2-12 μ	Sol Sol	Spec Substitution effect	Holman McCutcheon	AC JAOC	28 (1956) 36 (1959)	1533 450
$C_{18}H_{32}O_3$	9-Hydroxy-12-octa-decynoic acid	0.9-3 μ	Sol	Spec	Holman	AC	28 (1956)	1533
$C_{18}H_{32}O_4$	9,14-Dihydroxy-10,12-octadecadienoic acid	800-3600	S	Ident	Davis	JACS	72 (1950)	124
$C_{18}H_{32}O_4$	9,12-Diketostearic acid	600-3600	S	Ident	Davis	JACS	72 (1950)	124

$C_{18}H_{34}O_2$	cis-2-Octadecenoic acid	2-16 μ	Sol	Spec	Benedict	JACS	72 (1950)	4356
		-	Sol	Anal	Shreve	AC	22 (1950)	1261
		2-16 μ	Sol	Spec	Shreve	AC	22 (1950)	1498
		-	Sol	Anal	Swern	JAOJ	27 (1950)	17
		-	Sol	Freq	Fusari	JAOJ	28 (1951)	416
		1100-1400	S	Spec, Band study	Jones	JACS	74 (1952)	2575
		700-3400	S,Sol	Spec, Band freq, Anal	Sinclair	JACS	74 (1952)	2578
		2.5-15 μ	Sol	Spec	Ahlers	JAPC	3 (1953)	433
		5-16 μ	Sol	Spec, Struct	Freeman	JACS	75 (1953)	1859
		-	-	Group freq	Skellon	JCS	- (1953)	138
-	-	Freq	Wendland	AC	26 (1954)	1469		
0.9-3 μ	Sol	Spec	Holman	AC	28 (1956)	1533		
2-12 μ	Sol	Substitution effect	McCutcheon	JAOJ	36 (1959)	450		
1180-1350	S	Spec	Susi	AC	31 (1959)	910		
$C_{18}H_{34}O_2$	cis-2-Octadecenoic acid	-	Sol	Group freq	Myers	JACS	73 (1951)	2180
		650-1800	S,Sol	Spec, Band freq, Anal	Sinclair	JACS	74 (1952)	2578
$C_{18}H_{34}O_2$	trans-2-Octadecenoic acid	-	Sol	Group freq	Myers	JACS	73 (1951)	2100
		650-1800	S,Sol	Spec, Band freq, Anal	Sinclair	JACS	74 (1952)	2578
$C_{18}H_{34}O_2$	cis-6-Octadecenoic acid	-	Sol	Anal	Shreve	AC	22 (1950)	1261
		2-16 μ	Sol	Spec	Shreve	AC	22 (1950)	1498
		-	Sol	Anal	Swern	JAOJ	27 (1950)	17
		-	Sol	Freq	Fusari	JAOJ	28 (1951)	416
		-	Sol	Anal	Shreve	AC	22 (1950)	1261
$C_{18}H_{34}O_2$	trans-6-Octadecenoic acid	2-16 μ	Sol	Spec	Shreve	AC	22 (1950)	1498
		-	Sol	Anal	Swern	JAOJ	27 (1950)	17
		-	Sol	Freq	Fusari	JAOJ	28 (1951)	416
		0.9-3 μ	Sol	Spec	Holman	AC	28 (1956)	1533
		1180-1350	S	Spec	Susi	AC	31 (1959)	910
		-	Sol	Freq	Fusari	JAOJ	28 (1951)	416
		-	Sol	Spec	Shreve	AC	22 (1950)	1261
$C_{18}H_{34}O_2$	cis-7-Octadecenoic acid	-	Sol	Freq	Fusari	JAOJ	28 (1951)	416
		-	Sol	Spec	Shreve	AC	22 (1950)	1498
$C_{18}H_{34}O_2$	trans-7-Octadecenoic acid	1180-1350	Sol	Freq	Fusari	JAOJ	28 (1951)	416
		-	S	Spec	Susi	AC	31 (1959)	910
$C_{18}H_{34}O_2$	cis-8-Octadecenoic acid	-	Sol	Freq	Fusari	JAOJ	28 (1951)	416
		-	Sol	Spec	Benedict	JACS	72 (1950)	4356
$C_{18}H_{34}O_2$	trans-8-Octadecenoic acid	2-16 μ	Sol	Spec	Benedict	JACS	72 (1950)	4356

C ₁₈ H ₃₄ O ₂	cis-11-Octadecenoic acid	-	Sol	1180-1350	Spec	Fusari	JAOC	28 (1951)	416
		650-4000	-	Spec, Group freq	Parry	AC	31 (1959)	910	
		-	Sol	-	Freq	Fusari	JPC	64 (1960)	955
C ₁₈ H ₃₄ O ₂	trans-11-Octadecenoic acid	2-16 μ	-	Spec	Ahmad	JACS	70 (1948)	3391	
		2-16 μ	Sol	Spec	Rao	JACS	70 (1948)	1102	
C ₁₈ H ₃₄ O ₂	cis- Δ ^{9:10} -Octadecenoic acid	1180-1350	S	Spec	Fusari	JAOC	28 (1951)	416	
		600-3200	L	Assign	Susi	AC	31 (1959)	910	
		1-0 μ	L	Spec	Coblentz	JACS	81 (1959)	1535	
		0.6-2 μ	L	Spec	Coblentz	BBS	7 (1911)	619	
		2-16 μ	Sol	Spec	Rao	BBS	17 (1922)	267	
		2.5-15.5 μ	S	Spec	Fred	JACS	70 (1948)	1102	
		2-16 μ	L	Spec	Barr	AC	21 (1949)	900	
		-	L	Peanut oil study	Benedict	PR	79 (1950)	416	
		2-15 μ	Sol	Anal	Shreve	JACS	72 (1950)	4356	
		-	Sol	Anal	Swern	AC	22 (1950)	1261	
C ₁₈ H ₃₄ O ₂	Oleic acid adsorbed on fluorite (CaF ₂ ore)-water washed	1650-1800	Sol	Group study	Swern	AC	22 (1950)	1498	
		-	Sol	Freq	Cross	JAOC	27 (1950)	17	
		5.4-6.3 μ	-	Spec	Fusari	TFS	47 (1951)	354	
		2-15 μ	L	Spec	Marron	JAOC	28 (1951)	416	
		1100-1400	S	Spec, Band study	Allison	AC	23 (1951)	548	
		650-3500	S	Spec, Band study	Hanahan	AC	24 (1952)	630	
		2.5-15 μ	L	Spec, Band freq, Anal	Jones	JACS	74 (1952)	5070	
		5-16 μ	L	Spec	Sirclair	JACS	74 (1952)	2575	
		2-15 μ	S	Spec, Struct	Ahlers	JAPC	3 (1953)	433	
		0.9-3 μ	Sol	Spec, Group freq	Freeman	JACS	75 (1953)	1859	
C ₁₈ H ₃₄ O ₂	Oleic acid adsorbed on fluorite (CaF ₂ ore)-water washed	3-4 μ	Sol	Group freq	French	JPC	58 (1954)	805	
		1.4-2.6 μ	Sol	Group study	Tallent	AC	28 (1956)	1533	
		2-15 μ	S	Spec, Group freq	Fenton	AC	28 (1956)	953	
						JAOC	36 (1959)	620	
						JPC	58 (1954)	805	

$C_{18}H_{34}O_2$	Oleic acid absorbed on fluorite (CaF ₂ ore) -water and acetone washed	2-15 μ	S	Spec, Group freq	French	JPC	58 (1954)	805
$C_{18}H_{34}O_2$	γ -Stearolactone	-	-	Group freq	Radell	JACS	76 (1954)	4188
$C_{18}H_{34}O_3$	cis-9,10-Epoxy stearic acid	2-15 μ 2-12 μ	S,Sol Sol	Spec, Anal Spec, Table, H bond	Shreve O'Connor	AC JOC	23 (1951) 18 (1953)	277 693
$C_{18}H_{34}O_3$	trans-9,10-Epoxy- stearic acid	2-15 μ 2-12 μ 0.9-3 μ	S,Sol Sol Sol	Spec, Anal Spec, Table, H bond Spec	Shreve O'Connor Holman	AC JOC AC	23 (1951) 18 (1953) 28 (1956)	277 693 1533
$C_{18}H_{34}O_3$	Ricinelaiddic acid	2.5-15 μ 2-12 μ	Sol Sol	Spec Substitution effect	Ahlers McCutchon	JAPC JAOC	3 (1953) 36 (1959)	433 450
$C_{18}H_{34}O_3$	Ricinoleic acid	2-15 μ 2.5-15 μ - 2-12 μ	Sol L - Sol	Spec Spec Ident Group study	Ard Ahlers Crombie McCutchon	AC JAPC JCS JAOC	23 (1951) 3 (1953) - (1955) 36 (1959)	133 433 1740 115
$C_{18}H_{34}O_4$	Di-n-butyl sebacate	2-16 μ 2-15 μ	Sol L	Spec Spec	Stahl Kendall	JACS APS	74 (1952) 7 (1953)	5487 179
$C_{18}H_{34}O_4$	Dimethyl thapsate	670-3500	L,S	Spec, Config.	Corish	JCS	- (1958)	927
$C_{18}H_{34}O_4$	Diocetyl oxalate	1740-1800	Sol,L	Freq	Simon	JOC	23 (1958)	1078
$C_{18}H_{34}O_4$	(dd)-12-Hydroxy-10-oxo- octadecanoic acid	-	-	Group freq	Crombie	JCS	- (1955)	1740
$C_{18}H_{34}O_4$	Octadecanedioic acid	670-2000	L,S	Spec	Corish	JCS	- (1955)	1740
$C_{18}H_{34}O_6$	Di-2-butoxyethyl adipate	2-15 μ	L	Spec	Kendall	APS	7 (1953)	179
$C_{18}H_{34}O_8$	Triethylene glycol di- (3-pentyl) carbonate	2-15 μ	L	Spec	Kendall	APS	7 (1953)	179

$C_{18}H_{34}O_9$	2-15 μ	L	Spec	Kendall	AFS	7 (1953)	179
Diethylene glycol di-(2-n-butoxyethyl) carbonate	500-1500	S	Spec, Group assign Freq	Hadzi Bratoz	PRS SA	216 (1953) 8 (1956)	247 249
n-Octadecanoic acid- D_1	1100-1400 475-1800	S Sol, S	Spec Spec, Band freq, Anal	Jones Sinclair	JACS JACS	74 (1952) 74 (1952)	2575 2578
2-Bromostearic acid	2200-2300	Sol	Freq, Struct	Jesson	SA	13 (1958)	217
n-Heptadecylnitrile	2-7 μ	Sol	Spec	Spell	AC	32 (1960)	1811
Oleamide	650-1600	S, L	Spec	Billetter	HCA	41 (1958)	338
Cyclooctadecane	-	L	Group freq	Elsner	JCS	- (1953)	3156
1-Octadecene	0.9-3 μ 1.636 μ	Sol	Spec	Holman	AC	28 (1956)	1533
cis-2-Octadecene	-	L	Group freq	Elsner	JCS	- (1953)	3156
trans-2-Octadecene	-	L	Group freq	Elsner	JCS	- (1953)	3156
cis-3-Octadecene	-	L	Group freq	Elsner	JCS	- (1953)	3156
trans-3-Octadecene	-	L	Group freq	Elsner	JCS	- (1953)	3156
cis-4-Octadecene	-	L	Group freq	Elsner	JCS	- (1953)	3156
trans-4-Octadecene	-	L	Group freq	Elsner	JCS	- (1953)	3156
cis-5-Octadecene	-	L	Group freq	Elsner	JCS	- (1953)	3156
cis-6-Octadecene	-	L	Group freq	Elsner	JCS	- (1953)	3156
trans-6-Octadecene	-	L	Group freq	Elsner	JCS	- (1953)	3156
cis-7-Octadecene	-	L	Group freq	Elsner	JCS	- (1953)	3156

$C_{18}H_{36}$	trans-7-Octadecene	-	L	Group freq	Elsner	JCS	- (1953)	3156
$C_{18}H_{36}$	cis-8-Octadecene	-	L	Group freq	Elsner	JCS	- (1953)	3156
$C_{18}H_{36}$	cis-9-Octadecene	-	L	Group freq	Elsner	JCS	- (1953)	3156
$C_{18}H_{36}$	trans-9-Octadecene	-	L	Group freq	Elsner	JCS	- (1953)	3156
$C_{18}H_{36}DNO_2$	Stearohydroxamic acid-d ₁	700-4000	S, Sol	Spec, H bond	Hadzi	SA	10 (1958)	38
$C_{18}H_{36}O$	Elaidyl alcohol	-	Sol	Anal	Shreve	AC	22 (1950)	1261
		2-16 μ	Sol	Spec	Shreve	AC	22 (1950)	1498
		2-12 μ	Sol	Substitution effect	McCutcheon	JAO	36 (1959)	450
$C_{18}H_{36}O$	Oleyl alcohol	-	Sol	Anal	Shreve	AC	22 (1950)	1261
		2-16 μ	-	Spec	Shreve	AC	22 (1950)	1498
$C_{18}H_{36}O$	15, 15-Dimethylhexadecanoic acid	2-13 μ	Sol	Spec	Sobotka	JACS	72 (1950)	5139
$C_{18}H_{36}O_2$	cis-9, 10-Epoxyoctadecanol	2-15 μ	Sol	Spec, Anal	Shreve	AC	23 (1951)	277
$C_{18}H_{36}O_2$	trans-9, 10-Epoxy-1-octadecanol	2-15 μ	S, Sol	Spec, Anal	Shreve	AC	23 (1951)	277
$C_{18}H_{36}O_2$	Ethyl palmitate	1740	Sol	Band freq	Hampton	AC	21 (1949)	914
		1-12 μ	Sol	Spec	O'Connor	JAO	28 (1951)	154
		0.9-3 μ	Sol	Spec	Holman	AC	28 (1956)	1533
$C_{18}H_{36}O_2$	Stearic acid	-	-	Freq	Bratoz	SA	8 (1956)	248
		710-730	S	Spec, Band study	Chapman	JCS	- (1957)	4489
		-	Sol	Freq	Wenograd	JACS	79 (1957)	5844
		5.5-6.5 μ	Sol	Ident	Sawicki	AC	31 (1959)	523
$C_{18}H_{36}O_2$	Form C stearic acid	600-3200	L	Struct	Susi	JACS	81 (1959)	1535
$C_{18}H_{36}O_2$	15-Methylheptadecanoic acid	1150-1550	Sol	Spec	Sobotka	JACS	72 (1950)	5139

$C_{18}H_{36}O_2$	1150-1550	Sol	Spec	Sobotka	JACS	72 (1950)	5139
16-Methylheptadecanoic acid							
$C_{18}H_{36}O_2$	2-12 μ	Sol	Spec, H bond, Table	O'Connor	JOC	18 (1953)	693
10-Hydroxystearic acid							
$C_{18}H_{36}O_3$	2-12 μ	Sol	Spec, H bond, Table	O'Connor	JOC	18 (1953)	693
12-Hydroxystearic acid							
$C_{18}H_{36}O_4$	700-1500	S	Spec, Ident	Susi	AC	31 (1959)	910
6,7-Dihydroxystearic acid							
$C_{18}H_{36}O_4$	700-1500	S	Spec, Ident	Susi	AC	31 (1959)	910
8,9-Dihydroxystearic acid							
$C_{18}H_{36}O_4$	700-1500	S	Spec, Ident	Susi	AC	31 (1959)	910
9,10-Dihydroxystearic acid							
$C_{18}H_{36}O_4$	600-3600	S	Ident	Davis	JACS	72 (1950)	124
9,14-Dihydroxystearic acid							
$C_{18}H_{36}O_4$	700-1500	S	Spec, Ident	Susi	AC	31 (1959)	910
11,12-Dihydroxystearic acid							
$C_{18}H_{37}I$	1000-1400	S	Spec	Jones	JACS	74 (1952)	2575
1-Iodoctadecane							
$C_{18}H_{37}NO_2$	2-16 μ	Sol	Spec	Mislow	JACS	74 (1952)	5155
trans- Δ^4 -2-Amino-octadecene-1,3-diol							
$C_{18}H_{37}NO_2$	1000-3750	S	H bond	Nakagawa	BCSJ	33 (1960)	433
Dicyclohexylamine 2,4-hexanediol adduct							
$C_{18}H_{37}NO_2$	700-4000	S, Sol	Spec, H bond	Hadzi	SA	10 (1958)	38
Stearohydroxamic acid							
$C_{18}H_{37}NO_2$	2-12 μ	S, Sol	Assign, Spec	O'Connor	JACS	77 (1955)	892
Palmitic acid acetamide							
$C_{18}H_{37}NO_2$	700-4000	S, Sol	Spec, H bond	Hadzi	SA	10 (1958)	38
Stearohydroxamic acid							

$C_{18}H_{37}NO_5$	N-Dodecyl-D-glucosyl-amine	-	Ident	Erickson	JACS	77 (1955)	2839
$C_{18}H_{38}$	n-Octadecane	6.5-14 μ 8000-9000	Spec Anal	Thompson Hibbard	PRS AC	184 (1945) 21 (1949)	3 486
		-	Anal	Hastings	AC	24 (1952)	612
		1100-1400	Spec, Band study	Jones	JACS	74 (1952)	2575
		13.8 μ	Freq	Stein	JCP	22 (1954)	1993
		0.9-3 μ	Spec	Holman	AC	28 (1956)	1533
		710-730	Correlation	Chapman	JCS	- (1957)	4489
		700-3000	Struct	Jones	SA	9 (1957)	235
$C_{18}H_{38}O$	Octadecanol	2.5-3.9 μ	Spec	Fox	PRS	162 (1937)	419
		-	Force constant	Richards	TFS	44 (1948)	40
		2.9 μ	Optical density	Honn	JACS	71 (1949)	812
		-	Anal	Shreve	AC	22 (1950)	1261
		2-16 μ	Spec	Shreve	AC	22 (1950)	498
		1100-1400	Spec, Band study	Jones	JACS	74 (1952)	2575
		700-1700	Spec	Neuilly	CPR	238 (1954)	65
		710-730	Correlation	Chapman	JCS	- (1957)	4489
		3 μ	Freq, H bond	Flett	SA	10 (1958)	21
		3570-3700	Freq, Intensity	Flynn	AJC	12 (1959)	575
		3570-1500	Temp. effect on band intensity	Hashikuni	JPSJ	15 (1960)	941
$C_{18}H_{38}O_2$	16-Methylheptadecane-1,2-diol	1320-1430	Spec, Group freq	Horn	JCS	- (1953)	3533
		-	Freq	Horn	JCS	- (1954)	177
$C_{18}H_{38}O_2$	Octadecamethylene glycol	2-76 μ	H bond	Wall	JACS	61 (1939)	2679
$C_{18}H_{38}O_2$	n-Octadecane-1,2-diol	1320-1430	Spec	Horn	JCS	- (1953)	3533
		-	Ident	Horn	JCS	- (1954)	177
$C_{18}H_{38}O_2$	Tetra-t-butylethylene glycol	-	Group freq	Bartlett	JACS	77 (1955)	2801
$C_{18}H_{39}N$	Octadecylamine	0.9-3 μ	Spec	Holman	AC	28 (1956)	1533
$C_{18}H_{39}NO_3$	Di-cyclohexylamine 1,2,6-hexane triol adduct	1000-3750	H bond	Nakagawa	BCSJ	33 (1960)	433

$C_{18}H_{39}O_2P$	Ethyl di-(2-ethylhexyl) phosphite	700-1550	L	Spec, Group freq	Bellamy	JCS	- (1952)	475
$C_{18}H_{39}O_4P$	bis-(2,6-Dimethylheptyl-4)phosphoric acid	500-4000	Sol, S	H bond	Peppard	JINC	7 (1958)	231
$C_{18}H_{39}O_4P$	Ethyl di-(2-ethylhexyl) phosphate	-	-	Group freq Group freq	Bellamy Bell	JCS JACS	- (1952) 76 (1954)	1701 5185
$C_{18}H_{39}O_4P$	Octadecyl dihydrogen phosphate	670-3500	-	Spec, Assign, Group study	Bellamy	JCS	- (1953)	728
		600-4000	S	Group study	Braunholtz	JCS	- (1959)	868
$C_{18}H_{40}OSi$	Trimethylsilylundecyl butyl ether	-	-	Inductive effect	Josien	CFR	249 (1959)	826
$C_{18}H_{40}O_3Si$	Tri-2-ethylbutoxy-silane	2050-2250	Sol	Freq, Struct	Smith	SA	15 (1959)	412
$C_{18}H_{40}O_6P_2$	Tetraisobutylethylene diborate	6-14 μ	L	Struct, Group freq	Blau	JCS	- (1960)	380
$C_{18}H_{40}O_6B_2$	Tetra-n-butylethylene diborate	6-14 μ	L	Struct, Group freq	Blau	JCS	- (1960)	380
$C_{18}H_{40}Si$	n-Octadecylsilane	2-16 μ	Sol	Freq	Kniseley	SA	15 (1959)	651
$C_{18}H_{40}Si$	Tri-n-hexylsilane	2-16 μ	Sol	Freq	Kniseley	SA	15 (1959)	651
$C_{18}H_{42}N_3O_6P_3$	Isopropyl phosphonitri- late	2-21 μ	L	Spec, Anal	Daasch	AC	23 (1951)	853
$C_{18}H_{42}N_3O_6P_3$	n-Propyl phosphonitri- late	2-21 μ	L	Spec, Anal	Daasch	AC	23 (1951)	853
$C_{18}H_{44}N_2OSi_2$	Di-(dimethyl-N-n-hexyl- aminomethylsilyl) oxide	-	-	.Group study	Noll	JACS	73 (1951)	3871
$C_{18}H_{54}O_7Si_8$	Octadecamethyl octa- siloxane	2.5-14 μ 400-1100	Sol -	Spec Spec	Wright Kriegsmann	JACS ZE	69 (1947) 64 (1960)	803 541

C₁₉ COMPOUNDS

1400

C ₁₉ H ₈ O ₄	2-Oxobenzathrene-5,10-dicarboxylic anhydride	729-1770	S	Table	Brown	JCS - (1954)	1280
C ₁₉ H ₁₂ N ₄ O ₇	β -Naphthoquinoline picrate	-	-	Ident	Entel	JACS 77 (1955)	611
C ₁₉ H ₁₂ O ₂	2'-Methyl-1,2-benz-anthra-9,10-quinone	1600-1800	Sol	Group freq	Fuson	JACS 76 (1954)	2526
C ₁₉ H ₁₂ O ₂	3-Methyl-1,2-benz-anthra-9,10-quinone	1600-1800	Sol	Group freq	Fuson	JACS 76 (1954)	2526
C ₁₉ H ₁₂ O ₂	3'-Methyl-1,2-benz-anthra-9,10-quinone	1600-1800	Sol	Group freq	Fuson	JACS 76 (1954)	2526
C ₁₉ H ₁₂ O ₂	4-Methyl-1,2-benz-anthra-9,10-quinone	1600-1800	Sol	Group freq	Fuson	JACS 76 (1954)	2526
C ₁₉ H ₁₂ O ₂	4'-Methyl-1,2-benz-anthra-9,10-quinone	1600-1800	Sol	Group freq	Fuson	JACS 76 (1954)	2526
C ₁₉ H ₁₂ O ₂	5-Methyl-1,2-benz-anthra-9,10-quinone	1600-1800	Sol	Group freq	Fuson	JACS 76 (1954)	2526
C ₁₉ H ₁₂ O ₂	6-Methyl-1,2-benz-anthra-9,10-quinone	1600-1800	Sol	Group freq	Fuson	JACS 76 (1954)	2526
C ₁₉ H ₁₂ O ₂	7-Methyl-1,2-benz-anthra-9,10-quinone	1600-1800	Sol	Group freq	Fuson	JACS 76 (1954)	2526
C ₁₉ H ₁₃ Br	1-(p-Bromophenyl)- β -(β -naphthyl)-allene	-	Sol	Iso	Jacobs	JOC 17 (1952)	475
C ₁₉ H ₁₃ Br	1-(p-Bromophenyl)- β -(β -naphthyl)-1-propyne	-	Sol	Iso	Jacobs	JOC 17 (1952)	475
C ₁₉ H ₁₃ Br	1-(p-Bromophenyl)- β -(β -naphthyl)-2-bromovne	-	Sol	Iso	Jacobs	JOC 17 (1952)	475

$C_{19}H_{13}BrO_3$	2-Bromo-3-methylidibenzo [2,2] bicyclooctadiene-2,3-cis-dicarboxylic anhydride	2-15 μ	S	Spec	Vaughan	JACS	74 (1952)	5623
$C_{19}H_{13}NO_2$	2-Benzoyl-3-hydroxy-7,8-benzopyrrocoline	-	-	Group freq	Bockelheide	JACS	75 (1953)	3679
$C_{19}H_{13}NO_4$	9-(6-Nitrofluorenyl) phenyl sulfone	1100-1400	S	Spec, Freq	Bavin	SA	16 (1960)	1312
$C_{19}H_{13}NO$	2-Benzyl-6-cyanopyrid [3,4-6] indole-1(2H)-one	2.5-7 μ	S	Spec, Struct	Lindwall	JOC	18 (1953)	345
$C_{19}H_{13}N_2O_2S$	3,4-Dicyano-N-methyl-1-naphthalene benzene-sulfonamide	-	-	Group study	Adams	JACS	74 (1952)	5562
$C_{19}H_{13}N_2O_7$	Tri-(p-nitrophenyl)-carbinol	-	S	Freq	Hawthorne	JACS	77 (1955)	2549
$C_{19}H_{13}N_3O_8$	Tri-(p-nitrophenyl)-hydroperoxide	-	S	Freq	Hawthorne	JACS	77 (1955)	2549
$C_{19}H_{14}$	Methyl-1,2-benzanthracene	2700-3000 1375-1530	- Sol	Freq assign Ext coefficient, Vib	Fuson Moritz	BSCF SA	- 16 (1960)	93 74
$C_{19}H_{14}$	1'-Methyl-1,2-benzanthracene	670-3150 2700-3000	S Sol	Spec, Band freq Spec	Orr Badger	JCS SA	- 15 (1959)	218 672
$C_{19}H_{14}$	2'-Methyl-1,2-benzanthracene	2700-3000	Sol	Spec	Badger	SA	15 (1959)	672
$C_{19}H_{14}$	3-Methyl-1,2-benzanthracene	2700-3000	Sol	Spec	Badger	SA	15 (1959)	672
$C_{19}H_{14}$	3'-Methyl-1,2-benzanthracene	2700-3000	Sol	Spec	Badger	SA	15 (1959)	672
$C_{19}H_{14}$	4-Methyl-1,2-benzanthracene	670-2000 2700-3000	S Sol	Struct Spec	Cannon Badger	SA SA	4 (1951) 15 (1959)	373 672

$C_{19}H_{14}$	4'-Methyl-1,2-benz-anthracene	2700-3000	Sol	Spec	Badger	SA	15 (1959)	672
$C_{19}H_{14}$	5-Methyl-1,2-benz-anthracene	670-3150 650-2000 2700-3000	S S Sol	Spec, Band freq Struct, Spec Spec	Orr Cannon Badger	JCS SA SA	- 4 (1951) 15 (1959)	218 373 672
$C_{19}H_{14}$	6-Methyl-1,2-benz-anthracene	2700-3000	Sol	Spec	Badger	SA	15 (1959)	672
$C_{19}H_{14}$	7-Methyl-1,2-benz-anthracene	670-3150 2700-3000	S Sol	Spec, Band freq Spec	Orr Badger	JCS SA	- 15 (1959)	218 672
$C_{19}H_{14}$	8-Methyl-1,2-benz-anthracene	2700-3000	Sol	Spec	Badger	SA	15 (1959)	672
$C_{19}H_{14}$	9-Methyl-1,2-benz-anthracene	670-3150 650-2040 2700-3000	S S Sol	Spec, Band freq Spec Spec	Orr Cannon Badger	JCS SA SA	- 4 (1951) 15 (1959)	218 373 672
$C_{19}H_{14}$	10-Methyl-1,2-benz-anthracene	650-2030 2700-3000	S Sol	Spec Spec	Cannon Badger	SA SA	4 (1951) 15 (1959)	373 672
$C_{19}H_{14}$	1-Methyl-3,4-benzo-phenanthrene	2700-3000	Sol	Spec	Badger	SA	15 (1959)	672
$C_{19}H_{14}$	2-Methyl-3,4-benzo-phenanthrene	670-3150 2700-3000	S Sol	Spec, Band freq Spec	Orr Badger	JCS SA	- 15 (1959)	218 672
$C_{19}H_{14}$	5-Methyl-3,4-benzo-phenanthrene	2700-3000	Sol	Spec	Badger	SA	15 (1959)	672
$C_{19}H_{14}$	6-Methyl-3,4-benzo-phenanthrene	2700-3000	Sol	Spec	Badger	SA	15 (1959)	672
$C_{19}H_{14}$	7-Methyl-3,4-benzo-phenanthrene	2700-3000	Sol	Spec	Badger	SA	15 (1959)	672
$C_{19}H_{14}$	8-Methyl-3,4-benzo-phenanthrene	2700-3000	Sol	Spec	Badger	SA	15 (1959)	672
$C_{19}H_{14}$	5-Methylnaphthacene	2700-3000	Sol	Spec	Badger	SA	15 (1959)	672

$C_{19}H_{14}$		Sol	Iso	Jacobs	JOC	17 (1952)	475
$C_{19}H_{14}ClN_5O_2$	1-Phenyl-3-(β -naphthyl)-2-propyne	S	Spec, Freq, Assign	Le Fevre	AJC	9 (1956)	151
$C_{19}H_{14}ClN_2O_3S$	1-p-Chlorophenyl-3-phenyl-5-nitrophenyl formazan	S	Ident, Group freq	Adams	JACS	76 (1954)	3584
$C_{19}H_{14}N_2$	4,5-Dimethyl- ψ -indolo (2:3'-1:2) lilline	-	Band freq	Almond	JCS	- (1952)	1870
$C_{19}H_{14}N_2 \cdot HCl$	4,5-Dimethyl- ψ -indolo (2:3'-1:2) lilline hydrochloride	-	Band freq	Almond	JCS	- (1952)	1870
$C_{19}H_{14}N_2O$	2-Formamido-3-phenyl-7,8-benzopyrrocoline	-	Group freq	Bockelheide	JACS	75 (1953)	3679
$C_{19}H_{14}N_2O_3S$	2-Phenyl- α -phthalimido-2-thiazolidene acetic acid- β -lactam	Sol	Spec, Band freq, Struct	Sheehan	JACS	73 (1951)	4367
$C_{19}H_{14}N_4O_4$	Benzophenone-2,4-dinitrophenylhydrazone	-	Ident Spec, Ident	Entel Janes	JACS AC	77 (1955) 28 (1956)	611 191
$C_{19}H_{14}N_4O_5$	β -2-Furylacrylophenone-2,4-dinitrophenylhydrazone	S	Spec, Ident	Janes	AC	28 (1956)	191
$C_{19}H_{14}O$	2-Hydroxy-4-methylbenzo(c)phenanthrene	Sol	Ident	Djerassi	JACS	76 (1954)	1741
$C_{19}H_{14}O_2$	4-Phenoxybenzophenone	Sol	Group freq	Ungnade	JACS	75 (1953)	3333
$C_{19}H_{14}O_2S$	9-Fluorenyl phenyl sulfone	Sol	Spec, Freq	Bavin	SA	16 (1960)	1312
$C_{19}H_{14}O_3$	3-Methylidibenzo [2,2,2] bicyclooctadiene-2,3-cis-dicarboxylic anhydride	S	Spec	Vaughan	JACS	74 (1952)	5623

$C_{19}H_{14}O_3$	Phenyl 2-phenoxybenzoate	-	-	1404 Ident	De Tar	JACS	77 (1955)	4411
$C_{19}H_{14}O_3S_2$	[2-(2,3-Dihydro-3-oxothionaphthen)] [3-(2,3-dihydro-2-oxo-6-e-thoxythionaphthen)] methinoxonol	-	-	Ident	Glauert	JCS	- (1955)	30
$C_{19}H_{14}O_4$	2-Hydroxy-3-methyl-dibenzo [2,2,2] bicyclo-octadiene-2,3-cis-dicarboxylic anhydride	2-15 μ	S	Spec	Vaughan	JACS	74 (1952)	5623
$C_{19}H_{14}O_5$	Vulpinic acid	650-3800	-	Spec	Frank	JACS	72 (1950)	1824
$C_{19}H_{14}O_7$	Decarboxamido-terrinolide	-	Sol	Ident	Hochstein	JACS	75 (1953)	5455
$C_{19}H_{15}$	Triphenylmethyl radical	-	-	Resonance energy	Szwarc	DFS	2 (1947)	39
$C_{19}H_{15}BrN_4$	1-p-Bromophenyl-3,5-diphenyl formazan	680-1600	S	Spec, Freq, Assign	Le Fevre	AJC	9 (1956)	151
$C_{19}H_{15}Cl$	Chlorotriphenylmethane	-	Sol	Group freq, I	Pinchas	JCS	- (1954)	863
$C_{19}H_{15}ClN_2O_3S$	2-Chloro-p-phenylene-4-benzamide-1-benzenesulfonamide	-	S	Group freq	Adams	JACS	76 (1954)	3584
$C_{19}H_{15}ClN_4$	1-p-Chlorophenyl-3,5-diphenyl formazan	680-1600	S	Spec, Freq, Assign	LeFevre	AJC	9 (1956)	151
$C_{19}H_{15}Cl_3N_2O_3S_2$	2-Methyl-3,5,6-trichloro-p-phenylene dibenzenesulfonamide	3250-650	S	Freq Ident, Spec	Adams Adams	JACS JACS	74 (1952) 74 (1952)	2608 3171
$C_{19}H_{15}FO_3S$	Triphenyl methylfluoro sulfate	550-2400	S	Assign, Spec	Sharp	JCS	- (1957)	3761

$C_{19}H_{15}NO_2$	d,l-2-Methyl-6-nitro-2'-phenylbiphenyl	-	Sol	Ident	DeTar	JACS	77 (1955)	4393
$C_{19}H_{15}NO_5$	Benzyl-2-benzylidene-4,5-diketeto-3-oxazolidine acetate	2-8 μ	Sol	Spec	Sheehan	JACS	74 (1952)	360
$C_{19}H_{15}NO_5$	Benzyl-4-phenyl-2,3,5-triketeto-1-pyrrolidine acetate	2-8 μ	Sol	Spec, Band freq	Sheehan	JACS	74 (1952)	360
$C_{19}H_{15}NO_5$	Methyl-5,10-dihydro-5-oxo-10-acridinyl fumarate	-	S	Group freq	Acheson	JCS	- (1954)	3240
$C_{19}H_{15}NS$	10-Benzylphenothiazine	-	-	Ident	Gilman	JACS	74 (1952)	4205
$C_{19}H_{15}NS$	10-(o-Tolyl)-phenothiazine	-	-	Ident	Gilman	JACS	74 (1952)	4205
$C_{19}H_{15}NS$	10-(p-Tolyl)-phenothiazine	-	-	Ident	Gilman	JACS	74 (1952)	4205
$C_{19}H_{15}N^O_5_2$	1-p-Nitrophenyl-3,5-diphenyl formazan	680-1600	S	Spec, Freq, Assign	LeFevre	AJC	9 (1956)	151
$C_{19}H_{16}$	Triphenylmethane	3.2-3.6 μ 1050-1800 700-1700	Sol - L,S	Band study Spec Spec	Wall Barnes Richards	JACS IEC PRS	61 (1939) 15 (1943) 195 (1948)	1053 659 1
		-	Sol	Group freq, I	Pinchas	JCS	- (1954)	863
		1188	S	Freq	Kross	JACS	77 (1955)	5858
		625-900	-	Substitution effect	Margoshes	SA	7 (1955)	14
		-	Sol	Spec	Izrailovich	DANS	111 (1956)	617
		12-15 μ	S	Freq	Kross	JACS	78 (1956)	1332
$C_{19}H_{16}NO_6$	Adlumidine	-	Sol	Group freq	Marion	JACS	73 (1951)	305
$C_{19}H_{16}N_2$	Sempervirine	-	-	Struct, Use as synthetic base	Edward	JACS	71 (1949)	1694
		-	-	Spec	Woodward	JACS	71 (1949)	379
		2-12 μ	Sol	Spec, Band freq	Witkop	JACS	75 (1953)	3361
$C_{19}H_{16}N_2$	Yobyrine	-	Sol	Ident	Witkop	JACS	75 (1953)	3361
		-	-	Ident	Klohs	JACS	77 (1955)	4084

$C_{19}H_{16}N_2O$	7-Hydroxy-1-(2-methylbenzyl)-9H-pyrid-[3,4b] indole	-	-	Ident	MacPhillamy	JACS	77 (1955)	4335
$C_{19}H_{16}N_2O_4$	Govindachari's compound A	-	-	Group study	Govindachari	JCS	- (1954)	3785
$C_{19}H_{16}N_2O_4 \cdot HCl$	Govindachari's compound A hydrochloride	-	-	Group study, Struct	Govindachari	JCS	- (1954)	3785
$C_{19}H_{16}N_2O_4S$	α -(<i>o</i> -carboxybenzamido)-2-phenyl-2-thiazolidine acetic acid- β -lactone	2-11 μ	Sol	Spec, Freq, Struct	Sheehan	JACS	73 (1951)	4367
$C_{19}H_{16}N_2O_9$	Pentaerithritol mono-(<i>p</i> -nitrobenzoate)-ortho-(<i>p</i> -nitrobenzoate)	1010-1200	Sol	Spec, Struct	Bergmann	JACS	73 (1951)	2352
$C_{19}H_{16}N_4$	Triphenylformazan	680-1600	S	Spec, Freq, Assign	LeFevre	AJC	9 (1956)	151
$C_{19}H_{16}N_6OS$	5-(Imidazolylmethyl)-3-(phenyl- <i>p</i> -azophenyl)-2-thiohydantoin	600-4000	S	Spec, Ident	Epp	AC	29 (1957)	1283
$C_{19}H_{16}O$	2,5-Dibenzylidene-cyclopentanone	2-13 μ	Sol	Spec	Conroy	JACS	74 (1952)	491
$C_{19}H_{16}O$	5,5-Diphenylbicyclo[3,0,2]-2-heptene-6-one	-	-	Struct, Band freq	Marvel	JOC	16 (1951)	741
$C_{19}H_{16}O$	2-Hydroxy-4-methyl-5,6-dihydrobenzo(c)-phenanthrene	-	Sol	Band freq	Djerassi	JACS	76 (1954)	1741
$C_{19}H_{16}O$	2-Keto-4a-methyl-2,4a,5,6-tetrahydrobenzo(c)phenanthrene	-	Sol	Band freq, Struct	Djerassi	JACS	76 (1954)	1741
$C_{19}H_{16}O$	Triphenylcarbinol	6900-7200 2.5-3.9 μ	Sol Sol	Spec, Anal Spec, I	Wulf Fox	JACS PRS	57 (1935) 162 (1937)	1464 419

$C_{19}H_{17}NO_2S$	N-p-Diphenyltoluene-p-sulfonamide	-	S, Sol	Group freq	Baxter	JCS - (1955)	669
$C_{19}H_{17}NO_3$	1-Benzyl-4-ethyl-4-phenyl-2,3,5-pyrrolidinetrione	-	-	Spec	Skinner	JACS 72 (1950)	5569
$C_{19}H_{17}NO_3S$	1- α -Anthrylmercapturic acid	2-15 μ	S, Sol	Spec, Anal, Struct	Fuson	JACS 74 (1952)	1
$C_{19}H_{17}NO_6S$	p-Phthalimidomethyl-phenyl ethoxycarbonylmethyl sulfone	-	S	Freq	Momose	CPBF 6 (1958)	412
$C_{19}H_{17}NO_3$	1,2,3-Triphenylguanidine	-	S	Group freq	Pickard	JACS 76 (1954)	5169
$C_{19}H_{17}N_3O$	Evodiamine	-	Sol	Group freq	Marion	JACS 73 (1951)	305
$C_{19}H_{17}N_3O$	4-Phenylethylidene-3-iminophenylethylidene-5-pyrazolone	400-4000	-	Freq	Gagnon	CJC 37 (1959)	110
$C_{19}H_{17}O_4P$	Cresyldiphenylphosphate	2-15 μ	L	Spec	Kendall	APS 7 (1953)	179
$C_{19}H_{18}$	9,9-Diallylfluorene	700-1400	Sol	Spec	Scherf	CJC 38 (1960)	697
$C_{19}H_{18}N_2O_2S$	2-Phenyl- α -(phenylacetylamino)-2-thiazolideneacetic acid- β -lactam	2-8 μ	Sol	Spec, Freq	Sheehan	JACS 73 (1951)	4756
$C_{19}H_{18}N_2O_4S$	2-Phenyl- α -(phenylacetylamino)-2-thiazolideneacetic acid sulfone- β -lactam	2-11 μ 2-8 μ	Sol Sol	Spec, Struct Spec	Sheehan Sheehan	JACS 73 (1951) JACS 73 (1951)	4752 4756
$C_{19}H_{18}N_2O_5$	Govindachari's compound 'B'	-	-	Group freq	Govindachari	JCS - (1954)	3785

$C_{19}H_{18}NO_5$ HCl	Govindachari's compound 'B' hydrochloride	-	Group freq	Govindachari	JCS	- (1954)	3785
$C_{19}H_{18}NO_6$	α -(2'-Nitro-4',5'- dime thoxyphenyl- β - (3',4'-dime thoxy- phenyl)-acrylonitrile	-	Sol	Walker	JACS	77 (1955)	3844
$C_{19}H_{18}NO_6$	2-Acetoxybenzoesuberone anti-2,4-dinitro- phenylhydrazone	-	Sol	Ramirez	JACS	75 (1953)	6026
$C_{19}H_{18}NO_6$	2-Acetoxybenzo- suberone syn-2,4- dinitrophenyl- hydrazone	-	Sol	Ramirez	JACS	75 (1953)	6026
$C_{19}H_{18}O$	2-Keto-4-methyl- 2,3,4,4a,5,6- hexahydrobenzo[c] phenanthrene	-	Sol	Djerassi	JACS	76 (1954)	1741
$C_{19}H_{18}O$	1-Methyl-2-keto- 2,3,4,4a,5,6- hexahydrobenzo[c] phenanthrene	-	Sol	Wilds	JOC	17 (1952)	1154
$C_{19}H_{18}O_2$	3-Methoxy-14,15- dehydroequilenin	-	-	McNiven	JACS	76 (1954)	1725
$C_{19}H_{18}O_2$	3-Methoxy- $\Delta_{1,3,5:10,6,8,14}$ - estrahexaene-one-17	-	1702-1802	Jones Jones	JACS JACS	70 (1948) 74 (1952)	2024 80
$C_{19}H_{18}O_2$	3-Methoxy- $\Delta_{1,3,5:10,6,8,15}$ - estrahexaene-one-17	-	-	Jones	JACS	70 (1948)	2024
$C_{19}H_{18}O_3$	1,5-Diphenylpentane- 1,2-dicarboxylic anhydride	2-16 μ	Sol	Rondestedt	JOC	19 (1954)	548

$C_{19}H_{18}O_3$	2,5-Diphenylpentane-1,2-dicarboxylic anhydride	2-16 μ	Sol	Spec, Anal, Freq	Rondestvedt	JOC	19 (1954)	548
$C_{19}H_{18}O_3$	p-Phenylphenacyl angelate	-	-	Ident	Klohs	JACS	75 (1953)	4925
$C_{19}H_{18}O_3$	p-Phenylphenacyl tiglate	-	-	Ident, Freq	Klohs	JACS	76 (1954)	1152
$C_{19}H_{18}O_5$	Ethyl 2-(o-acetyl-salicyl)phenyl-acetate	2-12 μ	Sol	Spec	Wildi	JOC	16 (1951)	407
$C_{19}H_{18}O_6$	1,2,3,5-Tetraethoxy-6-methylanthraquinone	2-15 μ	S	Freq, Assign, Ident	Bloom	JCS	- (1959)	178
$C_{19}H_{18}O_7$	α -Carboxy- β -(3,4,5-trimethoxystyryl) tropolone	-	S	Ident, Freq, Struct	Tarbell	JACS	76 (1954)	2470
$C_{19}H_{18}O_7$	3,3',4',7-Tetraethoxy-5-hydroxy flavone	1550-4000	S	Group freq, H bond	Hergert	JACS	75 (1953)	1622
$C_{19}H_{18}Si$	Diphenylbenzylsilane	2-16 μ	Sol	Freq	Kniseley	SA	15 (1959)	651
$C_{19}H_{18}Si$	Diphenyl-m-tolylsilane	2-16 μ	Sol	Freq	Kniseley	SA	15 (1959)	651
$C_{19}H_{18}Si$	Diphenyl-p-tolylsilane	2-16 μ	Sol	Freq	Kniseley	SA	15 (1959)	651
$C_{19}H_{18}Si$	Methylphenyl-p-bi-phenylsilane	2-16 μ	Sol	Freq	Kniseley	SA	15 (1959)	651
$C_{19}H_{18}Si$	Methyl triphenylsilane	3-12 μ	L	Spec	Kanazashi	BCSJ	27 (1954)	441
$C_{19}H_{19}NO$	β -Benzoyl- α -methyl-propionitrile	-	-	Freq	Fuson	JACS	74 (1952)	1631
$C_{19}H_{19}NO$	8-Cyclohexylamino-perinaphthenone-7	1116-3045	S	Table	Cromwell	JACS	73 (1951)	1226

C ₁₉ H ₁₉ N ₀	1109-3557	S	Table	Cromwell	JACS	73 (1951)	1226
8,9-(N-Cyclohexyl)- iminoperinaphthenone- 7							
C ₁₉ H ₁₉ N ₀ 2	650-3800	S	Table	Cromwell	JACS	71 (1949)	3337
1,3-Diphenyl-2-(N- morpholino)-2- propen-1-one							
C ₁₉ H ₁₉ N ₀ 2	650-3800	S	Table	Cromwell	JACS	71 (1949)	3337
1,3-Diphenyl-3-(N- morpholino)-2- propen-1-one							
C ₁₉ H ₁₉ N ₀ 4	2-8 μ	Sol	Spec, Freq	Sheehan	JACS	74 (1952)	4555
Benzyl N-acetyl- phenacetate							
C ₁₉ H ₁₉ N ₀ 4	-	Sol	Band freq	Walker	JACS	76 (1954)	3999
3-(3',4'-Dimethoxy- phenyl)-6,7-dimethoxy- isoquinoline							
C ₁₉ H ₁₉ N ₀ 5	-	-	Freq	Wiesner	JACS	77 (1955)	675
7-(2'-Carbomethoxy- methyl-4',5'-dimethoxy- phenyl)oxindole							
C ₁₉ H ₁₉ N ₀ 5	2-10 μ	Sol	Spec	Sheehan	JACS	72 (1950)	5158
1- β -Naphthyl-4,4- dicarboxy-2- azetidinone							
C ₁₉ H ₁₉ N ₀ 5	-	Sol	Freq	Walker	JACS	77 (1955)	3844
3-Veratrylidene-5,6- dimethoxyindole							
C ₁₉ H ₁₉ N ₀ 7	-	Sol	Freq	Bergmann	JCS	- (1953)	2564
Ethyl 3-methyl-2,5- di-p-nitrophenyl- oxazolidine-4- carboxylate							
C ₁₉ H ₁₉ N ₀ 6	750-3800	-	Spec	Walker	JACS	70 (1948)	19
Pteroylglutamic acid							
C ₁₉ H ₁₉ N ₀ 2	700-1700	S	Spec	Stafford	AC	21 (1949)	1454
Bis-(N-benzyl)- itaconamide							
C ₁₉ H ₁₉ N ₀ 2	-	S	Freq	Noland	JACS	81 (1959)	1203
1,2-Dimethyl-3-(1- phenyl-2-nitro- propyl)indole							

$C_{19}H_{20}N_2O_2$	Ethyl DL-2-phenyl-tryptophan	-	Sol	Ident	Kissman	JACS	75 (1953)	1967
$C_{19}H_{20}N_2O_2$	2-Methyl-3-(1-phenyl-2-nitrobutyl)-indole	-	S	Freq	Noland	JACS	81 (1959)	1203
$C_{19}H_{20}N_2O_2$	Pseudoakumamine	-	-	Freq	Robinson	JCS	- (1955)	2049
$C_{19}H_{20}N_2O_5S$	4-Carbomethoxy-5,5-dimethyl-2-phenyl- α -succinimido-2-thiazolidineacetic acid- β -lactam	2-11 μ 2-11 μ	Sol Sol	Spec Spec, Band freq, Struct	Sheehan Sheehan	JACS JACS	72 (1950) 73 (1951)	3828 4376
$C_{19}H_{20}N_4OS$	5-Isobutyl-3-(phenyl-p-azophenyl)-2-thiohydantoin	600-4000	S	Spec, Ident	Epp	AC	29 (1957)	1283
$C_{19}H_{20}N_4OS$	5-Sec-Butyl-3-(phenyl-p-azophenyl)-2-thiohydantoin	600-4000	S	Spec, Ident	Epp	AC	29 (1957)	1283
$C_{19}H_{20}N_4O_5$	8-Methoxy-2,3-benzocyclooct-2-en-1-one anti-2,4-dinitrophenylhydrazone	-	Sol	Band freq	Ramirez	JACS	75 (1953)	6026
$C_{19}H_{20}O$	1,7-Diphenylhept-1-en-7-one	-	-	Group freq, Struct	Zimmerman	JACS	76 (1954)	2285
$C_{19}H_{20}O$	1-Ethyl-2,5-dimethyl-7-methoxyphenanthrene	6.11-13.73 μ	S	I	Dreiding	JACS	75 (1953)	3162
$C_{19}H_{20}O$	1-Phenyl-2-benzoyl-cyclohexane	-	Sol	Group freq	Zimmerman	JACS	75 (1953)	2367
$C_{19}H_{20}O$	dl-Equilenin methyl ether	-	Sol Sol	Freq Band freq	Jones Scheer	JACS JACS	74 (1952) 77 (1955)	5648 3300
$C_{19}H_{20}O_2$	3-Methoxy-dl-equilenin	1694-1794	Sol	Ext coefficient	Jones	JACS	74 (1952)	80

Formula	Compound Name	Wavenumber (cm ⁻¹)	Solvent	Measurement Type	Author	Journal	Year	Page
C ₁₉ H ₂₀ O ₂	3-Methoxy-dl-isoequilenin	1691-1791	Sol	Freq Ext coefficient	Jones Jones	JACS	72 (1950)	956
C ₁₉ H ₂₀ O ₃	3,6-Dimethyl-2-[(2',4'-dimethyl-1-phenyl)-methoxyhydroxy]methylbenzoic acid-γ-lactone	6-13 μ	Sol	Anal	Newman	JACS	73 (1951)	4627
C ₁₉ H ₂₀ O ₃	dl-14 5 -Hydroxy-equilenin-3-methyl ether	-	-	Group freq	McNiven	JACS	76 (1954)	1725
C ₁₉ H ₂₀ O ₃	1-Methyl-3-p-methoxyphenyl-1-propene-1-ol-3-one	2-7 μ	Sol	Group freq	Barnes	JACS	75 (1953)	479
C ₁₉ H ₂₀ O ₃	1-p-Methoxyphenyl-3-methyl-1-propene-2-ol-3-one	2-7 μ	Sol	Group freq	Barnes	JACS	75 (1953)	479
C ₁₉ H ₂₀ O ₃	Methyl 11-p-methoxyphenyl-all-trans-2,4,6,8,10-hendecapentaenoate	-	S	Group freq, I	Allan	JCS	- (1955)	1874
C ₁₉ H ₂₀ O ₃	Methyl 2',3,4',6-tetramethyl-2-benzoylbenzoate	6-13 μ	Sol	Anal	Newman	JACS	73 (1951)	4627
C ₁₉ H ₂₀ O ₃	p-Phenylphenacyl methylbutyrate	-	-	Ident	Klohs	JACS	75 (1953)	3595
C ₁₉ H ₂₀ O ₃		-	-	Ident	Klohs	JACS	75 (1953)	4925
C ₁₉ H ₂₀ O ₃		-	-	Ident	Klohs	JACS	76 (1954)	1152
C ₁₉ H ₂₀ O ₃		-	-	Ident	Myers	JACS	77 (1955)	3348
C ₁₉ H ₂₀ O ₄	Diethyl 1-acenaphthylmalonate	2-15 μ	L	Spec, Freq	Abramovitch	CJC	36 (1958)	151
C ₁₉ H ₂₀ O ₄	Methyl gibberdionate	-	S	Band freq	Cross	JCS	- (1954)	4670
C ₁₉ H ₂₁ NO ₂	Herelevin	982-1655	-	I	Crombie	JCS	- (1955)	995

$C_{19}H_{21}NO_3$	N-Allylnormorphine	-	S	Ident	Marsh	AC	27 (1955)	636
$C_{19}H_{21}NO_3$	Thebaine	2-12 μ	-	Spec, Struct	Stork	JACS	74 (1952)	768
$C_{19}H_{21}NO_4$	3-(3',4'-Dime thoxy- benzyl)-5,6- dimethoxyindole	-	Sol	Freq	Walker	JACS	77 (1955)	3844
$C_{19}H_{21}NO_4$	O ³ -Monoacetylmorphine	2-15.5 μ	Sol	Spec, Ident, Struct	Welsh	JOC	19 (1954)	1409
$C_{19}H_{21}NO_4$	2-(2-Quinolyl)-4-di- carbe thoxy-1-butene	-	-	Band freq	Bockelheide	JACS	73 (1951)	4015
$C_{19}H_{21}NO_5$	3-(3',4'-Dime thoxy- benzyl)-5,6-dime thoxy- indole	-	Sol	Freq	Walker	JACS	77 (1955)	3844
$C_{19}H_{21}NO_5 \cdot HCl$	Trimethylcolchicinic acid hydrochloride	1250-1800	Sol	Spec, Struct	Scott	JACS	72 (1950)	240
$C_{19}H_{21}N_3O_5S$	3,4-Dicarbamilino- 5,5-dimethylthia- zolidine	800-3600	S	Spec	Davis	JOC	13 (1948)	682
$C_{19}H_{21}N_5OS$	5- β -Aminobutyl-3- (phenyl-p-azophenyl)- 2-thiodyantoin	600-4000	S	Spec, Ident	Epp	AC	29 (1957)	1283
$C_{19}H_{21}N_7OS$	5- β -Guanidopropyl-3- (phenyl-p-azophenyl)- 2-thiodyantoin	600-4000	S	Spec, Ident	Epp	AC	29 (1957)	1283
$C_{19}H_{22}$	3,4-Diphenyl-3-heptene	2-15 μ	L	Spec, Ident	May	JOC	18 (1953)	1572
$C_{19}H_{22}N_2$	Alstyrine	-	S	Ident	Robinson	JCS	- (1954)	3479
$C_{19}H_{22}N_2$	1,2-Dimethyl-3-(1- phenyl-2-aminopropyl)- indole	-	S, Sol	Freq	Noland	JACS	81 (1959)	1203
$C_{19}H_{22}N_2 \cdot HCl$	4-Dimethylamino-2,2- diphenyl-3-methyl- butyronitrile hydro- chloride	-	-	Spec, Ident	Slettinger	JACS	74 (1952)	5619

$C_{19}H_{22}N_2O_2$	Clinchonidine	-	Sol	Freq	Marion	JACS	73 (1951)	305
$C_{19}H_{22}N_2O_2 \cdot HCl$	β, γ -Epoxy- γ' -benzyl-amino-N-benzyl-isovaleramide hydrochloride	2-16 μ	-	Spec	Lasslo	JACS	75 (1953)	5980
$C_{19}H_{22}N_2O_4$	α -(2'-Amino-4',5'-dime thoxyphenyl)- β -(3',4'-dime thoxy-phenyl)propioni trile	-	Sol	Freq	Walker	JACS	77 (1955)	3844
$C_{19}H_{22}N_2O_6$	3,5-Dicarbe thoxy-2,6-dime thyl-4-o-ni tro-phenyl-1,4-dihydro-pyridine	-	S	Band freq	Berson	JACS	77 (1955)	444
$C_{19}H_{22}N_2O_6$	3,5-Dicarbe thoxy-2,6-dime thyl-4-p-ni tro-phenyl-1,4-dihydro-pyridine	-	S	Band freq	Berson	JACS	77 (1955)	444
$C_{19}H_{22}N_2O_6$	Ethyl α -amino- α - benzyl-oxyme thyl- β -hydroxy- β -p-ni trophenyl-propionate	-	Sol	Group freq, Struct	Bergmann	JCS	- (1953)	2564
$C_{19}H_{22}N_2O_7$	1-Ethyl-2-benzyl-pyrrolidine picrate	-	S	Ident	Leonard	JACS	75 (1953)	3727
$C_{19}H_{22}O$	3,3-Diphenyl-2-e thyl-5-methyl-tetrahydro-furan	-	-	Band freq	Easton	JACS	75 (1953)	4731
$C_{19}H_{22}O_2$	cis-2-(α -Hydroxybenz-hydryl)cyclohexanol	-	Sol	Group freq	Zimmerman	JACS	75 (1953)	2367
$C_{19}H_{22}O_2$	trans-2-(α -Hydroxybenz-hydryl)cyclohexanol	-	Sol	Group freq	Zimmerman	JACS	75 (1953)	2367
$C_{19}H_{22}O_2$	1-Phenyl-2-(α -hydroxy-benzyl)cyclohexanol	3.08-14.32 μ	S	I Freq	Dreiding Zimmerman	JACS JACS	76 (1954) 76 (1954)	3965 2285

		1416					
		S, Sol	Group freq	Tarpley	APS	9 (1955)	69
$C_{19}H_{22}O_3$	$\Delta^{1,4}$ -Androstadietriene-3, 11, 17	-	Group freq				
$C_{19}H_{22}O_3$	Methyl epigibberate	S	Group freq	Cross	JCS	(1954)	4670
$C_{19}H_{22}O_3$	Methyl gibberate	S	Group freq	Cross	JCS	(1954)	4670
$C_{19}H_{22}O_4$	2-(8'-Ketonyl)-3-hydroxy-1,4-naphthoquinone	-	Spec	Nakanishi	JACS	74 (1952)	3910
$C_{19}H_{22}O_5$	Cedronolide	-	Crystal Study	Polansky	BSCF	(1960)	1845
$C_{19}H_{22}O_6$	5,8-Dihydro-2-acetoxy-3-carbetoxy-1-naphthalene acetic acid ethyl ether	-	Band freq	Tarbell	JACS	76 (1954)	5761
$C_{19}H_{22}O_6$	Gibberellic acid	S, Sol	Group freq	Cross	JCS	(1954)	4670
$C_{19}H_{23}N$	4-Dimethylamino-2'-isopropylstilbene	S	Spec, Band freq	Thompson	JCS	(1950)	214
$C_{19}H_{23}N$	4-Dimethylamino-2'-isopropylstilbene-trans	Sol	Band study	Orr	SA	8 (1956)	218
$C_{19}H_{23}N$	4-Dimethylamino-2',4',6'-trimethylstilbene	S	Spec, Band freq	Thompson	JCS	(1950)	214
$C_{19}H_{23}NO$	4-Dimethylamino-2',4',6'-trimethylstilbene-trans	Sol	Band study	Orr	SA	8 (1956)	218
$C_{19}H_{23}NO_3$	1,2-Diphenyl-2-(2'-piperidino)-ethanol hydrochloride	S	Spec	Nakanishi	BGSJ	30 (1957)	403
$C_{19}H_{23}NO_3$	β -Dihydrothebaine	-	Spec, Struct	Stork	JACS	73 (1951)	504
$C_{19}H_{23}NO_3$	Ethylmorphine	S	Spec, Struct	Stork	JACS	74 (1952)	768
$C_{19}H_{23}NO_3$	Ethylmorphine	S	Spec	Nakanishi	BGSJ	30 (1957)	403

	650-5000	S	Spec	Marion	APS	10 (1956)	85
$C_{19}H_{23}NO_3 \cdot HCl \cdot 2H_2O$			Ethylmorphine hydrochloride				
$C_{19}H_{23}NO_3$	-	Sol	α -Methylmorphine thine	Marion	JACS	73 (1951)	305
$C_{19}H_{23}NO_3$	2-12 μ	-	Phenolic dihydro-thibaine	Stork Stork	JACS JACS	73 (1951) 74 (1952)	504 768
$C_{19}H_{23}NO_4 \cdot HCl$	2-16 μ	Sol	1-Colchinol methyl ether hydrochloride	Rapoport	JACS	73 (1951)	1414
$C_{19}H_{23}NO_5$	-	Sol	N-Formyl- α,β -di-(3,4-dimethoxyphenyl)ethylamine	Walker	JACS	76 (1954)	3999
$C_{19}H_{23}N_2O_2$	-	S	Allethrolone dimer-1-semicarbazone	Allen	JOC	20 (1955)	323
$C_{19}H_{24}$	3-12 μ	Sol	1,3-Bis-(4-ethylphenyl)propane	Cram	JACS	73 (1951)	5691
$C_{19}H_{24}$	-	-	Dimesitylmethane	Fuson	JACS	76 (1954)	499
$C_{19}H_{24}$	1.1-1.25 μ	L	1,1-Diphenylheptane	Evans	AC	23 (1951)	1604
$C_{19}H_{24}$	-	-	1,1-Di-p-tolyl-2,2-dimethylpropane	Rogers	JACS	75 (1953)	2991
$C_{19}H_{24}Cl_2N_4$	-	-	N-Bis-(β -chloroethyl)-p-dimethylaminophenyl-diazobenzylamine	Chizhov	ZOK	30 (1960)	3695
$C_{19}H_{24}IN$	-	-	Duryl phenyl-N-methyl ketimine methiodide	Fuson	JACS	75 (1953)	5321
$C_{19}H_{24}INO_3$	-	S	1-N-Methylcoclaurine methiodide	Kield	JCS	- (1954)	669
$C_{19}H_{24}N_2$	-	Sol	dl-Yohimbane	Vanflamelen	JACS	76 (1954)	950

$C_{19}H_{24}N_2O$	Deacetylpermostrychnine	-	-	-	Freq	Anet	JCS	- (1955)	2253
$C_{19}H_{24}N_2O$	3-Hydroxy-2-p-toluidino-1-p-tolylpiperidine	-	-	-	Band freq	McGowan	JCS	- (1954)	4032
$C_{19}H_{24}N_2O_2$	Quinamine	-	-	-	Ident	Witkop	JACS	72 (1950)	2311
$C_{19}H_{24}N_2O_3$	Gelsedine	-	-	-	Ident	Schwary	JACS	75 (1953)	4372
$C_{19}H_{24}N_2O_4$	3,5,3',5'-Tetramethyl-4,4'-dicarboethoxydipyrrolmethene	2700-3500	Sol	-	Spec, H bond	Vestling	JACS	61 (1939)	3511
$C_{19}H_{24}N_2O_5$	α,β -Di-(3,4-dimethoxyphenyl)propionhydrazide	-	Sol	-	Band freq	Walker	JACS	76 (1954)	3999
$C_{19}H_{24}N_2O_5$	β,β -Di-(3,4-dimethoxyphenyl)propionhydrazide	-	Sol	-	Band freq	Walker	JACS	76 (1954)	3999
$C_{19}H_{24}N_2O_{14}$	Tetramethyl-1,3-trimethylenediamine picrate	-	-	-	Ident	Wiesner	JACS	75 (1953)	6348
$C_{19}H_{24}O$	Androsta-1,4,6-trien-3-one	650-9000	Sol	-	Spec	Henbest	JCS	- (1957)	997
$C_{19}H_{24}O$	3,4-Diphenyl-4-heptanol	2-15 μ	L	-	Spec, Ident	May	JOC	18 (1953)	1572
$C_{19}H_{24}O_2$	$\Delta^{1,4}$ -Androstadiene-dione-3,17	1580-3100	Sol	-	I	Jones	JACS	72 (1950)	86
		-	Sol	-	Freq	Jones	JACS	72 (1950)	956
		-	Sol	-	Freq	Jones	JACS	74 (1952)	5648
		-	S	-	Group freq, Ident	Fried	JACS	75 (1953)	5764
		670-1400	Sol	-	Spec	Jones	JACS	77 (1955)	651
		-	S, Sol	-	Group freq	Tarpley	APS	9 (1955)	69
$C_{19}H_{24}O_2$	$\Delta^{4,6}$ -Androstadiene-3,17-dione	752-1353	Sol	-	Tables	Jones	JACS	77 (1955)	651
$C_{19}H_{24}O_2$	$\Delta^{4,9(11)}$ -Androstadiene-3,17-dione	-	S	-	Group freq, Ident	Bernstein	JACS	75 (1953)	4830
		-	S	-	Group freq, Ident	Bernstein	JOC	19 (1954)	41

$C_{19}H_{24}O_2$		Band study	Rogers	JACS	75 (1953)	2991
1,1-Dianisyl-2,2-dimethylpropane	-	-	Rogers	JACS	75 (1953)	2991
$C_{19}H_{24}O_2$						
2,2-Dianisyl- β -methylbutane	-	Band study, Config	Rogers	JACS	75 (1953)	2991
$C_{19}H_{24}O_2$						
4,4-Diphenyl-2,5-heptanediol	-	Group freq	Easton	JACS	75 (1953)	4731
$C_{19}H_{24}O_2$						
Epoynorcastadienone	2-16 μ	Spec Band freq	Djerassi Haworth	JOC JCS	18 (1953) - (1955)	1449 1983
$C_{19}H_{24}O_2$						
d-Estrone methyl ether	600-3700	Spec, Ident	Johnson	JACS	74 (1952)	2832
$C_{19}H_{24}O_2$						
dl-Estrone methyl ether	600-3700	Spec, Ident Freq	Johnson Jones	JACS JACS	74 (1952) 74 (1952)	2832 5648
$C_{19}H_{24}O_2$						
1-Hydroxy-4-methyl- β -3-desoxyestrone	-	Band freq	Dreiding	JACS	75 (1953)	3159
$C_{19}H_{24}O_2$						
dl-Lumiestrone methyl ether	600-3100	Spec, Ident Freq	Johnson Jones	JACS JACS	74 (1952) 74 (1952)	2832 5648
$C_{19}H_{24}O_2$						
1-Lumiestrone methyl ether	600-3100	Spec, Ident	Johnson	JACS	74 (1952)	2832
$C_{19}H_{24}O_2$						
$\Delta^{1,3,5:10}$ - β -Methoxy-estra-1,3,5-trienone-17	-	Group freq	Jones	JACS	72 (1950)	956
$C_{19}H_{24}O_2$						
1,3,5:10-1-Methoxy-estra-1,3,5-trienone-17	-	Group freq Band study	Jones Dreiding	JACS JACS	72 (1950) 75 (1953)	956 3159
$C_{19}H_{24}O_3$						
Androstosterone	-	Ident	Eppstein	JACS	76 (1954)	3174
$C_{19}H_{24}O_3$						
Δ^4 -Androstene- β ,6,17-trione	-	Struct Ident Group freq	Paterson Paterson Amendolla	JACS JACS JCS	75 (1953) 75 (1953) - (1954)	412 5768 1226
$C_{19}H_{24}O_3$						
Δ^4 -Androstene- β ,11,17-trione	1700 2.5-15 μ	Freq, Struct Spec Struct Freq	Jones Blout Paterson Tarpley	JACS JOSA JACS APS	71 (1949) 41 (1951) 75 (1953) 9 (1955)	241 547 412 69

$C_{19}H_{24}O_3$	Δ^1 -Dehydrotestosterone Lactone	-	S	Group freq H bond, Struct	Fried Gual	JACS SA	75 (1953) 13 (1958)	5764 248
$C_{19}H_{24}O_3$	1,1-Diphenyl-2,2-die-thoxypropanol-1	800-1300	S	Freq, Ident, Struct	Rosenkrantz	SA	13 (1958)	291
$C_{19}H_{24}O_3$	$\Delta^5, 13(17a)$ -Etiojervadiene- β -ol-11, 17-dione	2-16 μ	S	Spec	Stevens	JOC	17 (1952)	1228
$C_{19}H_{24}O_3$	13-Hydroxy- β -keto-13:17-seco- $\Delta^1:4$ -androsta-dien-17-oic acid lactone	1000-1900	Sol	Spec, Freq	Jones	JACS	81 (1959)	5242
$C_{19}H_{24}O_3$	16-Keto-17 β -estradiol-3-methyl ether	-	-	Group freq, Struct, Ident	Sheehan	JACS	75 (1953)	6231
$C_{19}H_{24}O_3S$	D-threo-4-Phenyl-3-hexyl tosylate	-	Sol	Anal	Cram	JACS	75 (1953)	3189
$C_{19}H_{24}O_3S$	L-Erythro-4-phenyl 3-hexyl tosylate	-	Sol	Anal	Cram	JACS	75 (1953)	3189
$C_{19}H_{24}O_3S$	L-Threo-4-phenyl-3-hexyl tosylate	-	Sol	Anal	Cram	JACS	75 (1953)	3189
$C_{19}H_{24}O_6$	4b-Methyl-2-carbomethoxy-7-ethylenedioxy-1,2,3,4,4a,4b,5,6,7,8,10,10a β -dodecahydrophenanthrene-1,4-dione	-	S	Group freq	Lukes	JACS	75 (1953)	1707
$C_{19}H_{25}NO_2$	N,N-Bis-(3,5-dimethyl-2-hydroxybenzyl)-methylamine	2-15 μ	S	Spec, Freq	Burke	JACS	74 (1952)	602
$C_{19}H_{25}NO_2$	Δ^6 -Dihydrodesoxycodeine methyl ether	2-12 μ	Sol	Spec	Gates	JACS	72 (1950)	4839
$C_{19}H_{25}NO_2$	β - Δ^6 -Dihydrodesoxycodeine methyl ether	2-12 μ	Sol	Spec	Gates	JACS	72 (1950)	4839

$C_{19}H_{25}NO_2$	2-12 μ	Sol	Spec	Gates	JACS	72 (1950)	4839
Synthetic-d, 1- β - Δ^6 -dihydrodesoxy-codeine methyl ether	-	-	Ident	Stork	JACS	75 (1953)	4373
$C_{19}H_{25}NO_3$	-	-	Spec	Skinner	JACS	72 (1950)	5569
Isomethylidihydrothebaine	-	-	Group freq	Rappaport	JACS	76 (1954)	1796
1-(2-Phenylethyl)-4-ethyl-4,5-amyl-2,3,5-pyrrolidine-trione	1450-4000	S, Sol	Spec, Freq	Price	AJC	12 (1959)	589
10-Ketotetrahydro- α -methylmorphine	2-15 μ	S	Spec, Freq	Burke	JACS	74 (1952)	602
Acetylunacridine	400-4000	-	Freq	Gagnon	CJC	37 (1959)	110
N,N-Bis-(3,5-dimethoxy-4-hydroxybenzyl)-methylamine	-	-	Freq	Zeiss	JACS	75 (1953)	5935
4-Pentylidene-3-aminopentylidene-1-phenyl-5-pyrazolone	1300-3400	Sol	Spec	Jones	JACS	74 (1952)	5662
Δ^1 -exo-Dehydroabietene	-	Sol	Band freq	Beereboom	JOC	19 (1954)	1196
Androstanone-d ₄ -2,4	-	Sol	Band freq	Beereboom	JOC	19 (1954)	1196
4-Bromo-2-chloroandrostane-3,17-dione	2.80-11.70 μ	Sol	Group freq	Witkop	JACS	76 (1954)	5603
2,2-Dichloroandrostane-3,17-dione	-	S	Ident	Mosher	JACS	74 (1952)	4627
Aspidosine	500-4000	S, Sol	Freq, Spec, Struct,	Eisner	JCS	- (1958)	971
Dihydronequidone							
Di-(5-Ethoxycarbonyl-3:4-dimethyl-2-pyrryl) methane							

$C_{19}H_{26}N^+O_2$	N-Bis-(β -hydroxyethyl)-p-dimethylaminophenyldiazobenzylamine	-	-	Spec	Chizhov	ZOK	30 (1960)	3695
$C_{19}H_{26}O$	$\Delta^{3,5}$ -Androstadiene- one-17	-	-	Assign	Jones	JACS	70 (1948)	2024
$C_{19}H_{26}O$	$\Delta^{4,16}$ -Androstadienone-3	2.5-13 μ	Sol Sol	Spec, Group freq, Struct Freq	Rosenkrantz Sondheimer	JACS JACS	75 (1953) 77 (1955)	903 4145
$C_{19}H_{26}O$	Phenyl- β -ionol	-	-	Group freq	Oroshnik	JACS	76 (1954)	2325
$C_{19}H_{26}O_2$	$\Delta^{1,4}$ -Androstadienol 17 α -one-3	1580-3100	Sol Sol S	Freq Group freq Group freq	Jones Jones Fried	JACS JACS JACS	72 (1950) 72 (1950) 75 (1953)	86 956 5764
$C_{19}H_{26}O_2$	Δ^1 -Androstenedione- 3,17	660-1360 650-1350	Sol S	Spec Discussion	Jones Jones	JACS JACS	77 (1955) 80 (1958)	651 6121
$C_{19}H_{26}O_2$	Δ^4 -Androstenedione- 3,17	158-3100	Sol Sol Sol Sol	Group study Group freq Group freq Tables	Jones Jones Jones Jones	JACS JACS JACS JACS	72 (1950) 72 (1950) 74 (1952) 77 (1955)	86 956 5648 651
$C_{19}H_{26}O_2$	Δ^4 -Androstenedione- 3,17	-	-	Assign	Jones	JACS	70 (1948)	2024
		1580-3100	Sol Sol	Group study Group freq	Jones Jones	JACS JACS	72 (1950) 72 (1950)	86 86
		7.5-12.5 μ	L,S, Sol	Group freq Spec, Band freq	Jones Rosenkrantz	JACS AC	74 (1952) 25 (1953)	5648 1025
$C_{19}H_{26}O_2$	$\Delta^{1,3,5:10}$ -Methylestratrienediol-3,17 β	700-1370	Sol S,Sol	Spec Group freq IR	Jones Tarpley Morello	JACS APS ARS	77 (1955) 9 (1955) 53B (1957)	651 69 145
$C_{19}H_{26}O_2$	$\Delta^{1,3,5:10}$ -Methylestratrienediol-3,17 β	1650-1800	Sol	Group study	Jones	JACS	72 (1950)	956
$C_{19}H_{26}O_2$	16 α ,17 α -Oxido- Δ^4 - Androstene-3-one	-	Sol	Freq	Sondheimer	JACS	77 (1955)	4145
$C_{19}H_{26}O_3$	Allethrin	2-15 μ	L,Sol	IR	Freeman	AC	27 (1955)	1268
$C_{19}H_{26}O_3$	Androstane-3,6,17- trione	-	Sol	Group freq	Amendolla	JCS	- (1954)	1226

$C_{19}H_{26}O_3$	Δ^4 -Androsten-6 β -ol-3,17-dione	-	-	Group freq Ident	Amendolla Eppstein	JCS JACS	- 76	(1954) (1954)	1226 3174
$C_{19}H_{26}O_3$	Androstane-3,11,17-trione	1700 950-1350	Sol S,Sol	Freq Freq	Jones Rosenkrantz	JACS AC	71 28	(1949) (1956)	241 31
$C_{19}H_{26}O_3$	Δ^4 -Androsten-11 α -ol-3,17-dione	-	S	Group freq	Bernstein	JACS	75	(1953)	1481
		-	S	Group freq	Bernstein	JOC	18	(1953)	1166
		-	S	Group freq	Bernstein	JOC	19	(1954)	41
		-	S	Group freq, Struct	Eppstein	JACS	76	(1954)	3174
$C_{19}H_{26}O_3$	Δ^4 -Androsten-17 β -ol-3,17-dione	-	S	Group freq	Bernstein	JOC	18	(1953)	1166
$C_{19}H_{26}O_3$	Δ^4 -Androsten-17 β -ol-3,11-dione	-	S	Group freq	Bernstein	JOC	18	(1953)	1166
$C_{19}H_{26}O_3$	Δ^4 -Androsten-17 β -ol-3,16-dione	-	S	Group freq, Band freq	Meyer	JACS	76	(1954)	3033
$C_{19}H_{26}O_3$	Caryophyllene maleic anhydride adduct	-	Sol	Freq	Nickon	JACS	77	(1955)	1190
$C_{19}H_{26}O_3 \cdot HCl$	Caryophyllene maleic anhydride adduct hydrochloride	-	Sol	Freq	Nickon	JACS	77	(1955)	1190
$C_{19}H_{26}O_3$	1(11):9-Decahydro-1:12-dimethyl-6:7-isopropyl-idenedioxy-2-oxophenanthrene	650-900	Sol	Spec	Henbest	JCS	-	(1957)	997
$C_{19}H_{26}O_3$	11-Dihydrocadensterone	-	-	Spec, Ident	Huang	JACS	74	(1952)	1562
$C_{19}H_{26}O_3$	1,14-Dimethyl-2-keto-6,7-dihydroxy- $\Delta^1(11),9$ -decahydrophenanthrene acetonide	2-12 μ	Sol	Spec	Woodward	JACS	74	(1952)	4223
$C_{19}H_{26}O_3$	Etiocholan-3,11,17-trione	1700	Sol	Freq, Struct	Jones	JACS	71	(1949)	271
		-	-	Struct	Patterson	JACS	75	(1953)	412
		-	S,Sol	Freq	Tarpley	APS	9	(1955)	69
		950-1350	S,Sol	Band study	Rosenkrantz	AC	28	(1956)	31

$C_{19}H_{26}O_3$	17- β -Hydroxyandroster-4-ene-3,16-dione	-	Sol	Band study	Bellamy	JCS - (1957)	861
$C_{19}H_{26}O_3$	13-Hydroxy-3-keto-13;17-sec Δ^4 -androsten-17-oic acid lactone	1000-1900	Sol	Spec, Freq	Jones	JACS 81 (1959)	5242
$C_{19}H_{26}O_3$	Octahydrodeme thoxy-desoxydesacetamidocolchicine	2-14 μ	S	Spec, Struct Ident	Rapoport Rapoport	JACS 76 (1954) JACS 77 (1955)	3693 2389
$C_{19}H_{26}O_3$	3-Oxo-14 β ,17 α ,19-nor-10 ξ - Δ^4 -etienic acid	-	-	Ident	Barber	JOC 19 (1954)	365
$C_{19}H_{26}O_3$	6-Oxotestosterone	-	Sol	Group freq	Amendolla	JCS - (1954)	1226
$C_{19}H_{26}O_3$	Testololactone	700-4000 800-1300	S S	Group freq H bond, Struct, Spec Freq, Ident, Struct	Fried Gual Rosenkrantz	JACS 75 (1953) SA 13 (1958) SA 13 (1958)	5764 248 291
$C_{19}H_{26}O_4$	5,6,7,7a,8,9,10,11,12,12a-Decahydro-1,2,3-trimethoxy-5-ketobenzof[a]heptalene	840-2900	Sol	Table	Gutsche	JACS 76 (1954)	1771
$C_{19}H_{26}O_4$	2 β ,4b-Dimethyl-2-acetyl-1,2,3,4,4 α ,4b,5,6,7,9,10,10 $\alpha\beta$ -dodecahydrophenanthrene-4 β -ol-1,7-dione	-	S	Band freq	Sarett	JACS 75 (1953)	2112
$C_{19}H_{26}O_5$	4b-Methyl-2-acetyl-7-ethylenedioxy-1,2,3,4,4 α ,4b,5,6,7,8,10,10 $\alpha\beta$ -dodecahydrophenanthrene-4 β -ol-1-one	-	S	Group freq	Lukes	JACS 75 (1953)	1707
$C_{19}H_{26}O_6$	Iresin diacetate	-	Sol	Group freq	Djerassi	JACS 76 (1954)	2966
$C_{19}H_{26}O_{13}$	Hexaacetyl-D-glycero- β -D-gala-aldoheptose	2-15 μ	Sol	Band freq, I	Whistler	AC 25 (1953)	1463

Chemical Name	Formula	Wavenumber (cm ⁻¹)	Solvent	Band / Group	Author	Year	Page
Hexacetyl-D-glycero- α -D-gulo-aldoheptose	C ₁₉ H ₂₆ O ₁₃	2-15 μ	Sol	Band freq, I	Whistler	25 (1953)	1463
Hexacetyl-D-glycero- β -D-gulo-aldoheptose	C ₁₉ H ₂₆ O ₁₃	2-15 μ	Sol	Band freq, I	Whistler	25 (1953)	1463
Hexacetyl-D-glycero- β -L-manno-aldoheptose	C ₁₉ H ₂₆ O ₁₃	2-15 μ	Sol	Band freq, I	Whistler	25 (1953)	1463
2-Bromoandrostanedione- β ,17	C ₁₉ H ₂₇ BrO ₂	-	Sol	Group freq	Jones	72 (1950)	956
Caryophyllene maleic anhydride adduct bromo- γ -lactonic acid	C ₁₉ H ₂₇ BrO ₄	-	S	Freq	Nickon	77 (1955)	1190
Caryophyllene maleic anhydride adduct bromo- δ -lactonic acid	C ₁₉ H ₂₇ BrO ₄	-	S	Freq	Nickon	77 (1955)	1190
β -Chloro- Δ^5 -androstenone-17	C ₁₉ H ₂₇ ClO	2.5-15 μ	Sol	Spec, Band freq	Hirschmann	74 (1952)	5357
2-Chloroandrostan- β ,17-dione	C ₁₉ H ₂₇ ClO ₂	-	Sol	Band freq	Beereboom	19 (1954)	1196
3-Oxa-4-phenyl-4-cyclopentyl quinolizidine hydrochloride	C ₁₉ H ₂₇ NO.HCl	2-8 μ	S	Spec	Nakanishi	30 (1957)	403
1-Phenylcyclohexyl-2-piperidine methyl ketone hydrochloride	C ₁₉ H ₂₇ NO.HCl	-	-	Band freq	Tilford	76 (1954)	2431
Ethyl N-(δ -carbethoxybutyl)-1,2,3,4-tetrahydroisoquinoline-3-carboxylate	C ₁₉ H ₂₇ NO ₄	-	L	Group freq	Leonard	76 (1954)	3193
Androstanone-17- α ,2-16	C ₁₉ H ₂₈ D ₂ O	1300-1500	Sol	Spec	Jones	74 (1952)	5662
$\Delta^{5,16}$ -Androstadien- β -ol	C ₁₉ H ₂₈ O	-	Sol	Band study	Sondheimmer	77 (1955)	4145
Δ^2 -Androstenone-17	C ₁₉ H ₂₈ O	1580-3100	Sol	Group study, I	Jones	72 (1950)	86
		-	Sol	Group freq	Jones	74 (1952)	5648

	2.5-13 μ	Sol	Spec, Group freq, Struct	Rosenkrantz	JACS	75 (1953)	903
$C_{19}H_{28}O_2$	-	Sol	Ident	Amendolla	JCS	- (1954)	1226
	-	Sol	Ident	Sondheimer	JACS	77 (1955)	4145
Δ^4 -Androstenol-17 β -one-3	-	-	Assign	Jones	JACS	70 (1948)	2024
	-	-	Freq	Clarke	JACS	77 (1955)	651
	681-1330	Sol	Table	Jones	JACS	77 (1955)	661
	-	-	Ident	Johnson	JACS	77 (1955)	817
	650-1350	S	Discussion	Jones	JACS	80 (1958)	6121
Δ^5 -Androsten-3 β -ol-17-one	650-1350	S	Discussion	Jones	JACS	80 (1958)	6121
Δ^7 -Androsten-3 β -ol-17-one	-	-	Band freq	Neumann	JACS	73 (1951)	5478
Δ^9 :11-Androstenol-3 α -one-17	1580-3100	-	Assign	Jones	JACS	70 (1948)	2024
	-	Sol	Group study	Jones	JACS	72 (1950)	86
	-	Sol	Band freq	Cole	JACS	74 (1952)	5571
	2.5-13 μ	Sol	Band freq, Struct	Rosenkrantz	JACS	75 (1953)	903
Dehydroisoandrosterone	-	Sol	Spec, Assign	Jones	JACS	70 (1948)	2024
	1580-3100	Sol	Group study	Jones	JACS	72 (1950)	86
	2-13 μ	Sol	Spec	White	AC	22 (1950)	768
	2.5-15 μ	S,Sol	Spec, Band freq	Hirschmann	JACS	74 (1952)	5357
	1694-1794	Sol	Ext coefficient	Jones	JACS	74 (1952)	80
	-	Sol	Freq	Jones	JACS	74 (1952)	5648
	8-13 μ	S,L,Sol	Spec, Band freq	Rosenkrantz	AC	25 (1953)	1025
	-	S,Sol	Group freq	Turner	JACS	75 (1953)	4362
	715-1288	Sol	Table	Jones	JACS	77 (1955)	651
	-	S,Sol	Group freq	Tarpley	APS	9 (1955)	69
$C_{19}H_{28}O_2$	-	Sol	Group freq, I	Wilds	JACS	75 (1953)	5366
1,4-Dihydro-3,17 β -estradiol-3-me thyl ether	-	-	Group freq, I	Cram	JACS	76 (1954)	2743
1,4-(5',6'-Dihydroxy-decamethylene)-benzene acetone	-	Sol	Group freq, I	Cram	JACS	76 (1954)	2743
Etiocolanediolone-3,17	-	-	Assign	Jones	JACS	70 (1948)	2024
$C_{19}H_{28}O_2$	-	Sol	Group freq	Jones	JACS	74 (1952)	5648

$C_{19}H_{28}O_2$	$\Delta^{9:11}$ -Etiocolenol- 3α -one-17	-	764-1354 950-1350	Sol S,Sol	Table Band study	Jones Rosenkrantz	JACS AC	77 (1955) 28 (1956)	651 31
$C_{19}H_{28}O_2$	Δ^{11} -Etiocolenol- 3α -one-17	-	1580-3100	- Sol Sol Sol	Assign Group study Group freq Freq, Struct	Jones Jones Cole Rosenkrantz	JACS JACS JACS JACS	70 (1948) 72 (1950) 74 (1952) 75 (1953)	2024 86 5571 903
$C_{19}H_{28}O_2$	Δ^{11} -Etiocolenol- 3α -one-17	Sol	2700-4000	Sol	Spec, Assign	Jones	JACS	70 (1948)	2024
$C_{19}H_{28}O_2$	17β -Hydroxymethyl- Δ^4 -estren- 3 -one	Sol	-	Sol	Freq	Sandoval	JACS	77 (1955)	148
$C_{19}H_{28}O_2$	14-Isoandrostan- $3,17$ -dione	-	-	-	Ident	StAndre	JACS	74 (1952)	5506
$C_{19}H_{28}O_2$	19-Nor- 17α -methyl-testosterone	Sol	-	Sol	Band freq	Djerassi	JACS	76 (1954)	4092
$C_{19}H_{28}O_2$	Testane- $3,17$ -dione	-	-	-	Band freq	Fieser	JACS	75 (1953)	4837
$C_{19}H_{28}O_2$	Testosterone	-	-	-	IR	Morcillo	ARS	53B (1957)	145
$C_{19}H_{28}O_3$	Androstanol- 3α -dione-11,17	Sol Sol Sol	1700 - 2.5-13/ μ 770-3700	Sol Sol Sol	Freq Freq Freq, Struct Freq, I	Jones Cole Rosenkrantz Rosenkrantz	JACS JACS JACS JACS	71 (1949) 74 (1952) 75 (1953) 77 (1955)	241 5571 903 2237
$C_{19}H_{28}O_3$	Androstan- 11β -ol- $3,17$ -dione	S,Sol	950-1350	S,Sol	Band freq	Rosenkrantz	AC	28 (1956)	31
$C_{19}H_{28}O_3$	Androstan- 17β -ol- $3,6$ -dione	Sol Sol - Sol	- - - -	Sol Sol - Sol	Band freq, Ident Group freq, Ident Group freq Band freq	Sondheim Amendolla Eppstein Rosenkrantz	JACS JCS JACS JACS	75 (1953) - (1954) 76 (1954) 76 (1954)	4712 1226 3174 5024
$C_{19}H_{28}O_3$	Δ^4 -Androstene- $3\beta,6\beta$ -diol-17-one	S	-	S	Group freq	Amendolla	JCS	- (1954)	1226
$C_{19}H_{28}O_3$	Δ^4 -Androsten- $11\alpha,17\beta$ -diol- 3 -one	S	-	S	Group freq Group freq	Bernstein Eppstein	JOC JACS	18 (1953) 76 (1954)	1166 3174

C ₁₉ H ₂₈ O ₃	Δ ⁴ -Androsten-11β, 17β-diol-3-one	2-13.5 μ	S	Spec Group freq	Axelrod Bernstein	JACS JOC	75 (1953) 18 (1953)	5729 1166
C ₁₉ H ₂₈ O ₃	5-α-Dihydrotestosterone lactone	-	S	Group freq	Fried	JACS	75 (1953)	5764
C ₁₉ H ₂₈ O ₃	5β-Dihydrotestosterone lactone	-	S	Group freq	Fried	JACS	75 (1953)	5764
C ₁₉ H ₂₈ O ₃	3β, 16-Dihydroxy-16:17-seco-Δ ⁵ -androsten-17-oic acid-16:17-lactone	1000-1900	S	Spec, Freq	Jones	JACS	81 (1959)	5242
C ₁₉ H ₂₈ O ₃	3β, 17-Dihydroxy-16:17-seco-Δ ⁵ -androsten-16-oic acid-16:17-lactone	1000-1900	Sol	Spec, Freq	Jones	JACS	81 (1959)	5242
C ₁₉ H ₂₈ O ₃	3β, 17β-Dihydroxy-androst-5-en-16-one	-	Sol	Band study	Bellamy	JCS	- (1957)	861
C ₁₉ H ₂₈ O ₃	1, 14-Dimethyl-2-keto-6, 7-dihydroxy-Δ ¹ (11)-dodecahydrophenanthrene acetone	2-12 μ	Sol	Spec	Woodward	JACS	74 (1952)	4223
C ₁₉ H ₂₈ O ₃	Δ ¹ (11)-Dodecahydro-1:12-dimethyl-6:7-isopropylidenedioxy-2-oxophenanthrene	650-900	Sol	Spec	Henbest	JCS	- (1957)	997
C ₁₉ H ₂₈ O ₃	9, 11-Epoxytiocholanol-3α-one-17	-	Sol	Group freq	Jones	JACS	72 (1950)	956
C ₁₉ H ₂₈ O ₃	9α, 11α-Epoxyandrostanol-3α-one-17	-	Sol	Freq	Cole	JACS	74 (1952)	5571
C ₁₉ H ₂₈ O ₃	Etiocholanol-3α-dione-11, 17	1700	Sol	Freq, Struct	Jones	JACS	71 (1949)	241
		-	Sol	Band freq	Cole	JACS	74 (1952)	5571
		2.5-13 μ	Sol	Group freq, Struct	Rosenkrantz	JACS	75 (1953)	903
		770-3700	Sol	Freq, I	Rosenkrantz	JACS	77 (1955)	2237
		800-1800	S	Spec, Anal	Slaunwhite	AC	29 (1957)	1614
C ₁₉ H ₂₈ O ₃	12α-Hydroxyandrostan-3, 17-dione	-	-	Ident	Adams	JCS	- (1954)	2209

$C_{19}H_{28}O_3$	2 α -Hydroxy testosterone	-	Sol	Band freq, Ident Freq	Sondheimer Clarke	JACS JACS	75 (1953) 77 (1955)	4712 661
$C_{19}H_{28}O_3$	6 β -Hydroxy testosterone	-	Sol	Group freq Group freq	Amendolla Eppstein	JCS JACS	- (1954) 76 (1954)	1226 3174
$C_{19}H_{28}O_4$	Caryophyllene maleic anhydride adduct δ -lactonic acid	-	Sol	Freq	Nickon	JACS	77 (1955)	1190
$C_{19}H_{28}O_4$	Caryophyllene maleic anhydride adduct dicarboxylic acid	-	Sol	Freq	Nickon	JACS	77 (1955)	1190
$C_{19}H_{28}O_6$	Dihydroiresin diacetate	-	Sol	Band freq	Djerassi	JACS	76 (1954)	2966
$C_{19}H_{28}O_6$	Isodihydroiresin diacetate	-	Sol	Band freq	Djerassi	JACS	76 (1954)	2966
$C_{19}H_{29}BrO_2$	2-Bromoandrostanol-17 β -one-3	1683-1783	Sol	Group freq Ext coefficient Band study	Jones Jones Jones	JACS JACS JACS	72 (1950) 74 (1952) 74 (1952)	956 80 2828
$C_{19}H_{29}ClO$	3-Chloroandrostanone-17	-	-	Assign	Jones	JACS	70 (1948)	2024
$C_{19}H_{29}ClO$	3 β -Chloroandrostanone-17	2.5-15 μ	Sol	Spec, Band freq	Hirschmann	JACS	74 (1952)	5357
$C_{19}H_{29}ClO_2$	5-Chloroandrostanol-3-one-17	-	S, Sol	Group freq	Tarpley	APS	9 (1955)	69
$C_{19}H_{29}NO_3$	N-Dodecylsaccharin	-	-	Group freq, Struct	Rice	JACS	75 (1953)	4304
$C_{19}H_{29}N_3O_2$	3,5-Dimethyl-1,8-dioxo-2,4-di-n-propyl-3a,4,5,6,7,7a-hexahydro-4,7-methanoindene-8-semicarbazone	-	S	Group freq	Allen	JOC	20 (1955)	323
$C_{19}H_{30}$	3,5-Cycloandrostanone	3-12 μ	Sol	Spec	Wagner	JOC	17 (1952)	529

$C_{19}H_{30}$	2-16 μ	L	Spec	Oroshnik	JACS	76 (1954)	5719
3-Methyl-1-(2,6,6-trimethylcyclohex-2-enylidene)-nona-2,4-cis-diene	2-16 μ	L	Spec	Oroshnik	JACS	76 (1954)	5719
$C_{19}H_{30}$							
3-Methyl-1-(2,6,6-trimethylcyclohex-2-enylidene)-nona-2,4-trans-diene	2-16 μ	L	Spec	Oroshnik	JACS	76 (1954)	5719
$C_{19}H_{30}$							
2-Phenyl-1-tridecene	2-16 μ	L	Ident	Gray	JOC	20 (1955)	511
$C_{19}H_{30}N_2O_4$	2-15 μ	S	Spec, Ident	Jones	AC	28 (1956)	191
2-Tridecanone-2,4-dinitrophenylhydrazone							
$C_{19}H_{30}O$							
Androstanone-3	1665-1765	-	Assign	Jones	JACS	70 (1948)	2024
	1350-1500	Sol	Ext coefficient	Jones	JACS	74 (1952)	72
	650-3400	Sol	Spec, Freq	Jones	JACS	74 (1952)	80
	1695-1735	Sol	Spec	Jones	JACS	74 (1952)	5648
	2.5-13 μ	Sol	Group freq	Ramsay	JACS	74 (1952)	5662
		Sol	Spec, Group freq, Struct	Rosenkrantz	JACS	75 (1953)	903
	710-1380	Sol	Spec	Jones	JACS	77 (1955)	651
	950-1350	S, Sol	Band study	Rosenkrantz	AC	28 (1956)	31
$C_{19}H_{30}O$							
Androstanone-17							
	650-1350	-	Assign	Jones	JACS	70 (1948)	2024
	1350-1500	Sol	Spec, Ext coefficient	Cole	JACS	74 (1952)	5571
	1300-1500	Sol	Spec, Freq	Jones	JACS	74 (1952)	5648
	2.5-13 μ	Sol	Spec	Jones	JACS	74 (1952)	5662
	690-1390	Sol	Spec, Freq, Struct	Rosenkrantz	JACS	75 (1953)	903
	950-1350	S, Sol	Band study	Jones	JACS	77 (1955)	651
		S, Sol	Band study	Rosenkrantz	AC	28 (1956)	31
$C_{19}H_{30}O$							
Δ^5 -Androsten-3 β -ol	1580-3100	Sol	I, Group study	Jones	JACS	72 (1950)	86
	1650-1800	Sol	Group study	Jones	JACS	72 (1950)	956
	-	Sol	Freq	Cole	JACS	74 (1952)	5571
	-	Sol	Freq	Jones	JACS	74 (1952)	5648
	7.5-13 μ	S, L, Sol	Spec	Rosenkrantz	AC	25 (1953)	1025
	650-1350	Sol	Discussion	Jones	JACS	80 (1958)	6121
$C_{19}H_{30}O^2$							
Androstan-3 α -ol-17-one	800-3700	Sol	Spec	Jones	JACS	70 (1948)	2024
	-	Sol	Freq	Jones	JACS	72 (1950)	956

$C_{19}H_{30}O_2$	Androstan- β -ol-17-one	680-1340	Sol	Perform. of microcells	Cole	JOSA	42 (1952)	348
		-	Sol	Freq	Cole	JACS	74 (1952)	5571
		1694-1794	Sol	Ext coefficient	Jones	JACS	74 (1952)	80
		-	Sol	Freq	Jones	JACS	74 (1952)	5648
		2.5-13 μ	Sol	Freq, Struct	Rosenkrantz	JACS	75 (1953)	903
		-	Sol	Band freq	Iriarte	JOC	20 (1955)	542
		822-1288	Sol	Table	Jones	JACS	77 (1955)	651
		770-3700	Sol	Freq	Rosenkrantz	JACS	77 (1955)	2237
		800-1800	S	Spec	Slaunwhite	AC	29 (1957)	1614
		650-1350	Sol	Discussion	Jones	JACS	80 (1958)	6121
		-	-	Assign	Jones	JACS	70 (1948)	2024
		650-1350	Sol	Freq, Spec, Ext coefficient	Cole	JACS	74 (1952)	5571
		2.5-15 μ	S, Sol	Spec, Band freq	Hirschmann	JACS	74 (1952)	5357
		-	Sol	Freq	Jones	JACS	74 (1952)	5648
		-	-	Ident	Johnson	JACS	75 (1953)	2275
2.5-13 μ	Sol	Freq, Struct	Rosenkrantz	JACS	75 (1953)	903		
-	-	Ident	Leeds	JACS	76 (1954)	2265		
710-1292	Sol	Table	Jones	JACS	77 (1955)	651		
770-3700	Sol	Freq, I	Rosenkrantz	JACS	77 (1955)	2237		
650-1350	Sol	Discussion	Jones	JACS	80 (1958)	6121		
$C_{19}H_{30}O_2$	Androstan-17 α -ol- β -one	-	-	Assign	Jones	JACS	70 (1948)	2024
		-	Sol	Freq	Jones	JACS	74 (1952)	2828
		-	Sol	Freq	Jones	JACS	74 (1952)	5648
		-	-	Assign	Jones	JACS	70 (1948)	2024
		1670-1770	Sol	Ext coefficient	Jones	JACS	74 (1952)	80
		2.5-13 μ	Sol	Spec, Group freq, Struct	Rosenkrantz	JACS	75 (1953)	903
$C_{19}H_{30}O_2$	Androstan-17 β -ol- β -one	760-1311	Sol	Table	Jones	JACS	77 (1955)	651
		-	S, Sol	Group freq	Tarpley	APS	9 (1955)	69
		950-1350	S, Sol	Band study	Rosenkrantz	AC	28 (1956)	31
		650-1350	Sol	Discussion	Jones	JACS	80 (1958)	6121
		1650-1800	Sol	Group study	Jones	JACS	72 (1950)	956
		-	Sol	Freq	Cole	JACS	74 (1952)	5571
$C_{19}H_{30}O$	Δ^{16} -Androsten-3 α -ol	2.5-13 μ	Sol	Spec, Group freq, Struct	Rosenkrantz	JACS	75 (1953)	903
		650-1350	Sol	Discussion	Jones	JACS	80 (1958)	6121
		-	-	Assign	Jones	JACS	70 (1948)	2024
		650-1370	Sol	Spec	Jones	JACS	77 (1955)	651
$C_{19}H_{30}O$	Etiocolanone-3	950-1350	S, Sol	Band study	Rosenkrantz	AC	28 (1956)	31
		-	-	Assign	Jones	JACS	70 (1948)	2024

$C_{19}H_{30}O$	Etiocholanone-17	690-1350 950-1350	Sol S, Sol	Spec Band study	Jones Rosenkrantz	JACS AC	77 (1955) 28 (1956)	651 31
$C_{19}H_{30}O$	Δ^{16} -Etiocholenol-3 α	1650-1800 - 650-1350	Sol Sol Sol	Group study Freq Discussion	Jones Cole Jones	JACS JACS JACS	72 (1950) 74 (1952) 80 (1958)	956 5571 6121
$C_{19}H_{30}O$	Δ^{16} -Etiocholenol-3 β	1650-1800 - 650-1350	Sol Sol Sol	Group study Freq Discussion	Jones Cole Jones	JACS JACS JACS	72 (1950) 74 (1952) 80 (1958)	956 5571 6121
$C_{19}H_{30}O$	3-Methyl-1-(2,6,6-trimethylcyclohex-2-enylidene)-nona-2,4-cis-dien-6-ol	2-16 μ	L	Spec	Oroshnik	JACS	76 (1954)	5719
$C_{19}H_{30}O$	3-Methyl-1-(2,6,6-trimethylcyclohex-2-enylidene)-nona-2-cis-4-trans-dien-6-ol	2-16 μ	L	Spec	Oroshnik	JACS	76 (1954)	5719
$C_{19}H_{30}O$	3-Methyl-1-(2,6,6-trimethylcyclohex-2-enylidene)-nona-2,4-trans-dien-6-ol	2-16 μ	L	Spec	Oroshnik	JACS	76 (1954)	5719
$C_{19}H_{30}O_2$	Δ^5 -Androstenediol-3,17	-	-	Assign	Jones	JACS	70 (1948)	2024
$C_{19}H_{30}O_2$	Δ^5 -Androstenediol-16 α ,3 β ,17 α	650-1350	Sol	Discussion	Jones	JACS	80 (1958)	6121
$C_{19}H_{30}O_2$	Δ^5 -Androstenediol-3 β ,17 α	1580-3100 - 650-1350	Sol Sol Sol	Group study, I Freq Discussion	Jones Cole Jones	JACS JACS JACS	72 (1950) 74 (1952) 80 (1958)	86 5571 6121
$C_{19}H_{30}O_2$	Δ^5 -Androstenediol-3 β ,17 β	1580-3100 650-1750 650-1350 2.5-3.5 μ	Sol S Sol Sol	Group study, I Spec, Ident Discussion OH group study	Jones Behr Jones Kabasakalian	JACS AC JACS AC	72 (1950) 29 (1957) 80 (1958) 31 (1959)	86 1147 6121 375
$C_{19}H_{30}O_2$	Δ^7 -Androstenediol-3 β ,17 β	-	-	Spec	Neumann	JACS	73 (1951)	5478

$C_{19}H_{30}O_2$	Etiocolanolol-3 α -one-17	2700-4000 - - 1693-1793 - 1735-1765 2.5-13 μ 708-1255 770-3700 650-1350	Sol Sol Sol Sol Sol - Sol Sol Sol Sol	Spec, Assign Group freq Freq Spec, Ext coefficient Band study Band freq Freq, Struct Table Freq Discussion	Jones Jones Cole Jones Jones Ramsay Rosenkrantz Jones Rosenkrantz Jones	JACS JACS JACS JACS JACS JACS JACS JACS JACS JACS	70 (1948) 72 (1950) 74 (1952) 74 (1952) 74 (1952) 74 (1952) 75 (1953) 77 (1955) 77 (1955) 80 (1958)	2024 956 5571 80 5648 72 903 651 2237 6121
$C_{19}H_{30}O_2$	Etiocolanolol-3 β -one-17	- - - 1692-1792 708-1255 800-3800 800-1800 650-1350	- Sol Sol Sol Sol S Sol	Assign Freq Freq Ext coefficient Table Freq, I Anal Discussion	Jones Cole Jones Jones Jones Rosenkrantz Slaunwhite Jones	JACS JACS JACS JACS JACS JACS AC JACS	70 (1948) 74 (1952) 74 (1952) 74 (1952) 77 (1955) 77 (1955) 29 (1957) 80 (1958)	2024 5571 80 5648 651 2237 1614 6121
$C_{19}H_{30}O_2$	Etiocolanolol-17 β -one-3	- 767-1353 950-1350 650-1350	Sol Sol S,Sol Sol	Freq Table Band study Discussion	Jones Jones Rosenkrantz Jones	JACS JACS AC JACS	74 (1952) 77 (1955) 28 (1956) 80 (1958)	5648 651 31 6121
$C_{19}H_{30}O_2$	Isocandroliolactone	700-4000	S	Spec, H bond, Struct	Gual	SA	13 (1958)	248
$C_{19}H_{30}O_2$	dl-Lumiapiandrosterone	-	-	Ident	Johnson	JACS	75 (1953)	2275
$C_{19}H_{30}O_2$	3 α ,4 α -Oxidostane-17 β -ol	- -	- -	Ident Band freq	Fieser Fieser	JACS JACS	75 (1953) 75 (1953)	1704 4837
$C_{19}H_{30}O_2$	2,4,6-Tri-t-butyl-benzoic acid	-	Sol	Spec	Forbers	CJC	38 (1960)	728
$C_{19}H_{30}O_3$	Androstenediol-3 α -17 β -one-17	- 2.5-13 μ 770-3700	- Sol Sol	Assign Freq, Struct Freq, I	Jones Rosenkrantz Rosenkrantz	JACS JACS JACS	70 (1948) 75 (1953) 77 (1955)	2024 903 2237
$C_{19}H_{30}O_3$	Androstan-3-one-6 β ,17 β -diol	-	S	Band freq	Rosenkrantz	JACS	76 (1954)	5024

$C_{19}H_{32}O$	Androstanol-3 α	-	Sol	Freq	Cole Jones Rosenkrantz	JACS	74 (1952)	5571
		-	Sol	Freq		JACS	74 (1952)	5648
		2.5-13 μ	Sol	Spec, Group freq, Struct		JACS	75 (1953)	903
$C_{19}H_{32}O$	Androstanol-3 β	770-3700	Sol	Freq, I	Rosenkrantz Jones	JACS	77 (1955)	2237
		650-1350	Sol	Spec		JACS	80 (1958)	6121
		650-1350	Sol	Freq, Spec		JACS	74 (1952)	5571
$C_{19}H_{32}O$	Androstanol-17	-	Sol	Freq	Jones Rosenkrantz Rosenkrantz Jones	JACS	74 (1952)	5648
		2.5-13 μ	Sol	Spec, Freq		JACS	75 (1953)	903
		770-3700	Sol	Freq, I		JACS	77 (1955)	2237
$C_{19}H_{32}O$	Androstanol-17 α	650-1350	-	Spec	Jones	JACS	80 (1958)	6121
		-	Sol	Assign		JACS	70 (1948)	2024
		2.5-13 μ	Sol	Spec, Freq, Struct		JACS	75 (1953)	903
$C_{19}H_{32}O$	Etiocolanol-3 α	950-1350	S, Sol	Band study	Rosenkrantz Rosenkrantz Jones	JACS	28 (1956)	31
		650-1350	Sol	Spec		JACS	80 (1958)	6121
		770-3700	Sol	Freq		JACS	74 (1952)	5571
$C_{19}H_{32}O$	Etiocolanol-3 β	770-3700	Sol	Freq, I	Cole Rosenkrantz Jones	JACS	77 (1955)	2237
		650-1350	Sol	Spec		JACS	80 (1958)	6121
		770-3700	Sol	Freq		JACS	77 (1955)	2237
$C_{19}H_{32}O$	Etiocolanol-17 β	650-1350	S, Sol	Band freq	Rosenkrantz Jones	JACS	28 (1956)	31
		650-1350	Sol	Spec		JACS	80 (1958)	6121
		-	-	Assign		JACS	70 (1948)	2024
$C_{19}H_{32}O_2$	Androstenediol-3 α , 17 α	2.5-13 μ	Sol	Freq, Struct	Rosenkrantz Rosenkrantz Jones	JACS	75 (1953)	903
		770-3700	S	Freq, I		JACS	77 (1955)	2237
		650-1350	Sol	Spec		JACS	80 (1958)	6121
$C_{19}H_{32}O_2$	Androstenediol-3 β , 17 α	770-3700	S	Freq, I	Rosenkrantz Jones	JACS	77 (1955)	2237
		650-1350	Sol	Spec		JACS	80 (1958)	6121
		-	-	Assign		JACS	70 (1948)	2024
$C_{19}H_{32}O_2$	Androstenediol-3 β , 17 β	2.5-13 μ	Sol	Freq, Struct	Jones Rosenkrantz Rosenkrantz Jones	JACS	70 (1948)	2024
		770-3700	S	Freq, Struct		JACS	75 (1953)	903
		650-1350	Sol	Freq, I		JACS	77 (1955)	2237
$C_{19}H_{32}O_2$	Androstenediol-3 β , 17 α	770-3700	S	Freq, I	Rosenkrantz Jones	JACS	77 (1955)	2237
		650-1350	Sol	Spec		JACS	80 (1958)	6121
		-	-	Assign		JACS	70 (1948)	2024
$C_{19}H_{32}O_2$	Androstenediol-3 β , 17 β	2.5-13 μ	Sol	Freq, Struct	Jones Rosenkrantz Rosenkrantz Jones	JACS	70 (1948)	2024
		770-3700	S	Freq, Struct		JACS	75 (1953)	903
		650-1350	Sol	Freq, I		JACS	77 (1955)	2237

$C_{19}H_{32}O_2$	Androstane- 6β , 17 β -diol	- 650-1350	S Sol	Group study Spec	Rosenkrantz Jones	JACS JACS	76 (1954) 80 (1958)	5024 6121
$C_{19}H_{32}O_2$	Etiocolanediol- 3α , 17 α	- 650-1350	- Sol	Assign Spec	Jones Jones	JACS JACS	70 (1948) 80 (1958)	2024 6121
$C_{19}H_{32}O_2$	Etiocolanediol- 3α , 17 β	770-3700 650-1350	S Sol	Freq, I Spec	Rosenkrantz Jones	JACS JACS	77 (1955) 80 (1958)	2237 6121
$C_{19}H_{32}O_2$	Methyl β -eleostearate	2-16 μ -	- -	Spec Freq	Woltemate Wendland	JACS AC	72 (1950) 26 (1954)	1233 1469
$C_{19}H_{32}O_2$	Methyl linolenate	700-1800 -	L -	Spec, Freq, Anal Autooxidation study	Sinclair Khan	JACS JCP	74 (1952) 21 (1953)	2578 952
$C_{19}H_{32}O_2$	Methyl octadec- trans-11-en-9-ynoate	- -	L	Freq	Crombie	JCS	- (1955)	1007
$C_{19}H_{32}O_2$	Methyl ximerynate	2.5-15 μ	L	Group freq	Ahlers	JCS	- (1952)	5039
$C_{19}H_{32}O_2$	Testane- 3β , 17 β -diol	- -	-	Band freq	Fieser	JACS	75 (1953)	4837
$C_{19}H_{32}O_3$	2-Tert-Butylperoxy- 4,6-di-tert-butyl- 2-methylcyclohexa- 3,5-dienone	5.7-6.2 μ	Sol	Group study	Bickel	JCS	- (1953)	3211
$C_{19}H_{32}O_3$	4-Tert-Butylperoxy- 2,6-di-tert-butyl- 4-methylcyclohexa- 2,5-dienone	5.7-6.2 μ 2-15 μ	Sol -	Group study Spec	Bickel Campbell	JCS JACS	- (1953) 74 (1952)	3211 1469
$C_{19}H_{32}O_3$	4-Tert-Butylperoxy- 4,6-di-tert-butyl- 2-methylcyclohexa- 2,5-dienone	5.7-6.2 μ	Sol	Group study	Bickel	JCS	- (1953)	3211
$C_{19}H_{32}O_3$	Methyl α -kamfolenate	700-1000	S	Group freq, Struct	Crombie	JCS	- (1954)	2816
$C_{19}H_{32}O_3$	Methyl β -kamfolenate	700-1000	S	Group freq, Struct	Crombie	JCS	- (1954)	2816
$C_{19}H_{32}O_3$	3β , 16 α , 17 β -Tri- hydroxyandrostane	2.5-15 μ	S	Spec, Freq	Hirschmann	JACS	74 (1952)	5357

				Absorption	Herzog	JACS		
$C_{19}H_{32}O_3$	Etiocholanane-3 α , 11 β , 17 β -triol	-	-		Herzog	JACS	75 (1953)	269
$C_{19}H_{33}Cl_5O_2$	Methyl pentachloro- stearate	2-15 μ	L	Spec	Kendall	APS	7 (1953)	179
$C_{19}H_{33}NO_3S$	O-Methylol-N-dodecyl- benzenesulfonamide	-	-	Group freq, Struct	Rice	JACS	75 (1953)	4304
$C_{19}H_{33}O_3P$	Tridecyl hydrogen phenylphosphorate	600-5000	L, Sol	Spec	Peppard	JINC	12 (1960)	60
$C_{19}H_{34}D_2O_2$	Methyl oleate-9, 10-d ₂	2-11 μ	-	Spec Anal	Khan Khan	JAO JACS	28 (1951) 74 (1952)	27 3018
$C_{19}H_{34}D_4O_2$	Methyl stearate-9, 10- d ₄	4-6.5 μ	Sol	Spec	Khan	JAO	28 (1951)	27
$C_{19}H_{34}N_2 \cdot$ HCl ₄	l-6-n-Butyl- sparteine perchlorate	-	Sol	Band freq	Leonard	JACS	77 (1955)	1552
$C_{19}H_{34}OSi$	Trimethylsilyldecyl phenyl ether	-	-	Inductive effect	Josien	CPR	249 (1959)	826
$C_{19}H_{34}O_2$	Methyl cis-9, trans- 11-linoleate	0.9-3 μ	Sol	IR, Spec	Holman	AC	28 (1956)	1533
$C_{19}H_{34}O_2$	Methyl trans-9, trans- 11-linoleate	900-1000 2.5-15 μ	Sol L	Spec, Group freq Spec	Jackson Williamson	JAO JAPC	29 (1952) 3 (1953)	229 301
$C_{19}H_{34}O_2$	Methyl cis-9, trans- 12-linoleate	1650-3500 900-1000 700-1800	L Sol L	Spec Spec, Group freq Spec, Freq, Anal Autooxidation study Purity	Dugan Jackson Sincclair Khan Harrison	JAO JAO JACS JCP JACS	26 (1949) 29 (1952) 74 (1952) 21 (1953) 76 (1954)	681 229 2578 952 2379
$C_{19}H_{34}O_2$	Methyl trans-10-cis- 12-linoleate	900-1000	Sol	Spec, Group freq Freq	Jackson Wendland	JAO AC	29 (1952) 26 (1954)	229 1469
$C_{19}H_{34}O_2$	Methyl trans-10, trans-12-linoleate	900-1000	Sol	Spec, Group freq Freq	Jackson Wendland Holman	JAO AC AC	29 (1952) 26 (1954) 28 (1956)	229 1469 1533

$C_{19}H_{34}O_2$	Methyl linolelaidate	900-1000 - 0.9-3 μ	Sol - Sol	Spec, Group freq Freq Spec	Jackson Wendland Holman	JACOC AC AC	29 (1952) 26 (1954) 28 (1956)	229 1469 1533
$C_{19}H_{34}O_2$	Methyl octadecadienate	1150-1800	-	Freq, Spec	Barnes	IEC	15 (1943)	659
$C_{19}H_{34}O_3$	Methyl 12-ketoelaidate	2-12 μ	Sol	Substitution effect	McCutcheon	JACOC	36 (1959)	450
$C_{19}H_{34}O_3$	Methyl linoleate peroxide	0.9-3 μ	Sol	Spec	Holman	AC	28 (1956)	1533
$C_{19}H_{36}$	1,1-Dicyclohexyl- heptane	-	-	Band freq	Bomstein	AC	25 (1953)	512
$C_{19}H_{36}O_2$	endo-Cyclopropanona- decanoic acid	-	-	Spec, Band study	Hofmann	JACS	72 (1950)	4328
$C_{19}H_{36}O_2$	Dihydrosterculic acid	2-16 μ	-	Spec, Struct, Freq	Hofmann	JACS	76 (1954)	1799
$C_{19}H_{36}O_2$	2,5-Dimethyl-2- heptadecanoic acid	5.5-16 μ	Sol, L	Spec, Struct	Freeman	JACS	75 (1953)	1859
$C_{19}H_{36}O_2$	Lactobacillic acid	2-16 μ	-	Spec, Struct, Freq	Hofmann	JACS	76 (1954)	1799
$C_{19}H_{36}O_2$	Methyl elaidate	- 2-16 μ - 1-12 μ 700-1800 - - - 0.9-3 μ 2-12	Sol L Sol Sol L - - - Sol Sol	Quant anal Spec Anal Spec Spec, Freq Freq Anal Freq Spec Substitution effect	Shreve Shreve Swern Feuge Sinclair Skellon Swern Wendland Holman McCutcheon	AC AC JACOC JACOC JACS JCS JACS AC AC JACOC	22 (1950) 22 (1950) 27 (1950) 28 (1951) 74 (1952) - (1953) 75 (1953) 26 (1954) 26 (1956) 36 (1959)	1261 1498 17 420 2578 138 3135 1469 1533 450
$C_{19}H_{36}O_2$	trans-DL-9,10-Methylene- octadecanoic acid	2-16 μ	-	Spec, Struct, Freq	Hofmann	JACS	76 (1954)	1799
$C_{19}H_{36}O_2$	trans-DL-11,12- Methyleneoc ta- decanoic acid	2-16 μ	-	Spec, Struct, Freq	Hofmann	JACS	76 (1954)	1799

$C_{19}H_{36}O_2$	Methyl trans-2-octadecenoate	650-1800	S	Spec, Freq	Sinclair	JACS	74 (1952)	2578
$C_{19}H_{36}O_2$	2-Methyloctadec-2-enoic acid	-	-	Freq	Bailey	JCS	- (1955)	1547
$C_{19}H_{36}O_2$	Methyl oleate	1150-1800	-	Spec, Freq Peanut oil study	Barnes	IEC	15 (1943)	659
		-	L	Anal	Barr	PR	79 (1950)	416
		-	Sol		Shreve	AC	22 (1950)	1261
		2-16 μ	L	Spec	Shreve	AC	22 (1950)	1498
		-	Sol	Anal	Swern	JAOC	27 (1950)	17
		1-12 μ	Sol	Spec	Feuge	JAOC	28 (1951)	420
		2-15 μ	L	Spec	Knight	JAOC	28 (1951)	188
		700-3400	L	Spec, Freq	Sinclair	JACS	74 (1952)	2578
		-	Sol	Anal	Baker	JCS	- (1955)	2218
$C_{19}H_{36}O_2$	Methyl petroselaidate	-	Sol	Anal	Shreve	AC	22 (1950)	1261
		2-16 μ	Sol	Spec	Shreve	AC	22 (1950)	1498
		-	Sol	Anal	Swern	JAOC	27 (1950)	17
$C_{19}H_{36}O_3$	cis-Methyl 9,10-epoxystearate	2-15 μ	L	Spec	Shreve	AC	23 (1951)	277
$C_{19}H_{36}O_3$	trans-Methyl 9,10-epoxystearate	2-15 μ	L	Spec	Shreve	AC	23 (1951)	277
$C_{19}H_{36}O_3$	Methyl-dl-12-hydroxy-octadec-cis-9-enoate (Synthetic)	-	L	Ident	Crombie	JCS	- (1955)	1740
$C_{19}H_{36}O_3$	Methyl ricinelaideate	2-16 μ	Sol	Spec, Freq	Dupuy	JAOC	35 (1958)	99
$C_{19}H_{36}O_3$	Methyl ricinoleate (natural)	-	L	Ident	Crombie	JCS	- (1955)	1740
$C_{19}H_{36}O_3$	Methyl ricinoleate	2-16 μ	Sol	Spec, Freq	Dupuy	JAOC	35 (1958)	99
$C_{19}H_{36}O_3$	Methyl ricinolate	2-12 μ	Sol	Assign	McCutcheon	JAOC	36 (1959)	115
$C_{19}H_{36}O_4$	2-Isobutoxy-6-tetrahydropranol caprate	-	-	Band study	Smith	JACS	74 (1952)	2018

$C_{19}H_{36}O_4$	Methyl oleate hydroperoxide	2.9 μ 2-15 μ	Sol L	O.D. at 2.9 Spec, Anal	Honn Shreve	JACS AC	71 (1949) 23 (1951)	812 282
$C_{19}H_{36}O_5$	Ozonized methyl oleate	2.9 μ	Sol	Ozonization study	Izumi	KKZ	60 (1957)	943
$C_{19}H_{36}Si$	Methyltricyclohexylsilane	3-12 μ	Sol	Spec	Kanazashi	BCSJ	27 (1954)	441
$C_{19}H_{37}NO$	Octadecyl isocyanate	- 4-7.5 μ	Sol S	Freq, I Freq, Assign	Davison Barr	JCS JCS	- - (1953) (1956)	3712 3428
$C_{19}H_{37}NO_2$	1-Methyl-1-azacyclo-nonadecan-10-ol-11-one	-	Sol	Freq	Leonard	JACS	76 (1954)	5708
$C_{19}H_{38}$	7-Cyclohexyltridecane	1.1-1.25 μ	L	Anal	Evans	AC	23 (1951)	1604
$C_{19}H_{38}$	1-Cyclopentyl-2-hexyloctane	12.6-14.7 μ	L	Struct, Anal	Francis	AC	25 (1953)	1466
$C_{19}H_{38}NO_3$	Urea-oleic acid complex	-	-	Freq, Struct	Scorocco	AAN	24 (1958)	435
$C_{19}H_{38}O_2$	15-Ethylheptadecanoic acid	7-15 μ	Sol	Spec, Band freq	Freeman	JACS	74 (1952)	2523
$C_{19}H_{38}O_2$	2-Methylotadecanoic acid	7-15 μ 6.5-8.5 μ	Sol L	Spec, Band freq Ident	Freeman Guertin	JACS AC	74 (1952) 28 (1956)	2523 1194
$C_{19}H_{38}O_2$	3-Methylotadecanoic acid	7-15 μ 6.5-8.5 μ	Sol L	Spec, Band freq Ident	Freeman Guertin	JACS AC	74 (1952) 28 (1956)	2523 1194
$C_{19}H_{38}O_2$	4-Methylotadecanoic acid	7-15 μ 6.5-8.5 μ	Sol L	Spec, Band freq Ident	Freeman Guertin	JACS AC	74 (1952) 28 (1956)	2523 1194
$C_{19}H_{38}O_2$	5-Methylotadecanoic acid	7-15 μ 6.5-8.5 μ	Sol L	Spec, Band freq Ident	Freeman Guertin	JACS AC	74 (1952) 28 (1956)	2523 1194
$C_{19}H_{38}O_2$	6-Methylotadecanoic acid	7-15 μ	Sol	Spec, Band freq	Freeman	JACS	74 (1952)	2523
$C_{19}H_{38}O_2$	7-Methylotadecanoic acid	7-15 μ	Sol	Spec, Band freq	Freeman	JACS	74 (1952)	2523
$C_{19}H_{38}O_2$	8-Methylotadecanoic acid	7-15 μ	Sol	Spec, Band freq	Freeman	JACS	74 (1952)	2523

$C_{19}H_{38}O_2$	9-Methyloctadecanoic acid	2-16	Sol	Band freq, Struct	Freeman	JACS	74 (1952)	2523
$C_{19}H_{38}O_2$	10-Methyloctadecanoic acid	2-16	Sol	Band freq, Struct	Freeman	JACS	74 (1952)	2523
$C_{19}H_{38}O_2$	11-Methyloctadecanoic acid	2-16	Sol	Band freq, Struct	Freeman	JACS	74 (1952)	2523
$C_{19}H_{38}O_2$	12-Methyloctadecanoic acid	2-16	Sol	Band freq, Struct	Freeman	JACS	74 (1952)	2523
$C_{19}H_{38}O_2$	13-Methyloctadecanoic acid	2-16	Sol	Band freq, Struct	Freeman	JACS	74 (1952)	2523
$C_{19}H_{38}O_2$	14-Methyloctadecanoic acid	2-16	Sol	Band freq, Struct	Freeman	JACS	74 (1952)	2523
$C_{19}H_{38}O_2$	15-Methyloctadecanoic acid	7-15	Sol	Spec, Band freq	Freeman	JACS	74 (1952)	2523
$C_{19}H_{38}O_2$	16-Methyloctadecanoic acid	7-15	Sol	Spec, Band freq	Freeman	JACS	74 (1952)	2523
$C_{19}H_{38}O_2$	17-Methyloctadecanoic acid	7-15	Sol	Spec, Band freq	Freeman	JACS	74 (1952)	2523
$C_{19}H_{38}O_2$	Methyl stearate	-	Sol	Anal	Shreve	AC	22 (1950)	1261
		2-16	Sol	Spec	Shreve	AC	22 (1950)	1498
		1-12	Sol	Spec	Swern	JAOC	27 (1950)	17
		1-12	Sol	Spec, Ext. coefficient	Feuge	JAOC	28 (1951)	420
		-	-	Absorption	O'Connor	JAOC	28 (1951)	154
		700-3500	S,Sol	Spec, Freq	Khan	JACS	74 (1952)	3018
		-	Sol	Anal	Sinclair	JACS	74 (1952)	2570
		710-730	S	Band study	Chapman	JCS	- (1957)	4489
$C_{19}H_{38}O_2$	n-Nonadecanoic acid	700-3500	S,Sol	Spec, Freq	Sinclair	JACS	74 (1952)	2570
		720	S	Band study	Chapman	JCS	- (1957)	4489
		2-15	S	Spec, Anal	Meiklejohn	AC	29 (1957)	329
$C_{19}H_{38}O_2$	2,3,4-Trimethylhexadecanoic acid	7-15	Sol	Spec, Freq	Freeman	JACS	74 (1952)	2523
$C_{19}H_{38}O_2$	Methyl 10-hydroxy stearate	2-12	Sol	Spec	O'Connor	JOC	18 (1953)	693

$C_{19}H_{38}O_3$	Methyl 12-hydroxystearate	2-12 μ - 0.9-3 μ 2-16 μ	Sol - Sol Sol	Spec, H bond Band freq Spec Spec, Freq	O'Connor Rodell Holman Dupuy	JOC JACS AC JAOC	18 (1953) 76 (1954) 28 (1956) 35 (1958)	693 4188 1533 99
$C_{19}H_{38}O_4$	Methyl cis-9,10-dihydroxystearate	2.7-3.5 μ	S, Sol	Spec, H bond	Davies	JCP	8 (1940)	577
$C_{19}H_{38}O_4$	Methyl trans-9,10-dihydroxystearate	2.7-3.5 μ	S, Sol	Spec, H bond	Davies	JCP	8 (1940)	577
$C_{19}H_{38}O_4$	1-Monopalmitin	650-3500	S	Spec, Struct	Chapman	JCS	- (1956)	55
$C_{19}H_{38}O_4$	2-Monopalmitin	650-3500	S	Spec, Struct	Chapman	JCS	- (1956)	55
$C_{19}H_{35}NO_2$	Dicyclohexylamine 1,7-heptanediol adduct	1000-3750	S	H bond	Nakagawa	BCSJ	33 (1960)	433
$C_{19}H_{40}$	7-n-Hexyltridecane	6.5-14 μ	Sol	Spec	Thompson	PRS	184 (1945)	3
$C_{19}H_{40}$	Pristane	1500-600	L	Ident	Pliva	ACS	4 (1950)	846
$C_{19}H_{40}N_2O_3$	Urea-stearic acid complex	-	-	Freq, Struct	Scorocco	AAN	24 (1958)	435
$C_{19}H_{40}N_2O_3$	Urea-cetyl acetate complex	-	-	Freq, Struct	Scorocco	AAN	24 (1958)	435
$C_{19}H_{40}Si$	Allyl-n-hexadecylsilane	2-16 μ	Sol	Freq	Kniseley	SA	15 (1959)	651
$C_{19}H_{40}Si$	Cyclopentamethylene-diheptylsilane	2-35 μ	L	Assign	Oshesky	JACS	79 (1957)	2057
$C_{19}H_{42}N_2O$	Urea-n-oc tadecane complex	-	-	Freq, Struct	Scorocco	AAN	24 (1958)	435
$C_{19}H_{50}Si$	Pentamethylheptae thoxy pentasiloxane	600-3500	L	Spec	Okawara	BCSJ	31 (1958)	154

C₂₀ COMPOUNDS

C ₂₀ H ₁₀	1,8-Diphenyl-1,3,5,7- Octatetrayne	-	Sol	Group freq, I	Armitagl	JCS - (1954)	147
C ₂₀ H ₁₀ Br ₄ O ₄	3,3-Bis(3',5'-dibromo-4'- hydroxyphenyl)phthalide	330-2000	S	Freq	Jakobsen	APS 14 (1960)	61
C ₂₀ H ₁₀ O ₂	Perylene-3,10-quinone	763-1650	S	Table, Group freq	Brown	JCS - (1954)	1280
C ₂₀ H ₁₀ O ₃	Dinaphtho[2,1,1', 2']furan-5,6-dione	-	-	Group study	Brunstrom	JACS 77 (1955)	2463
C ₂₀ H ₁₀ O ₃	1-Hydroxyperylene-3,10- quinone	763-3322	S	Table	Brown	JCS - (1954)	1280
C ₂₀ H ₁₀ O ₄	2,11-Dihydroxyperylene- 3,10-quinone	731-3279	S	Table	Brown	JCS - (1954)	1280
C ₂₀ H ₁₂	1,2-Benzpyrene	630-2010	S	Spec	Cannon	SA 4 (1951)	373
C ₂₀ H ₁₂	3,4-Benzpyrene	630-2030	S	Spec	Cannon	SA 4 (1951)	373
C ₂₀ H ₁₂	Perylene	640-2010	S	Spec	Cannon	SA 4 (1951)	373
C ₂₀ H ₁₂ O ₂	1-Phenylanthraquinone	-	-	H bond, Spec	Shigorin	DANS 132 (1960)	1372
C ₂₀ H ₁₂ O ₃	3,5-Diphenylphthalic anhydride	-	-	Ident	Cope	JACS 76 (1954)	6156
C ₂₀ H ₁₂ O ₃	2-Phenyl-1-fluorenone carboxylic acid	5.5-6.5 μ	Sol	Band freq, Ident	Sawicki	AC 31 (1959)	523
C ₂₀ H ₁₂ O ₄	4-(2-Carboxyphenyl)- 5,6-benzocoumarin	-	-	Ident	Brunstrom	JACS 77 (1955)	2463
C ₂₀ H ₁₂ O ₄	Pechmann dye	2-15.5 μ	S	Spec, Struct, Band freq	Kbilgsberg	CR 54 (1954)	59

$C_{20}H_{12}O_5$	Fluorescein	1000-1800	S	Spec, Struct, Band, Freq Struct	Davies	JPR	15 (1954)	305
$C_{20}H_{12}O_8$	2,5-Dihydroxy-3,6-bis-(m-Carboxyphenyl)-1,4-benzoquinone	5-15 μ	S	Spec, Struct	Edwards	JAPC	10 (1960)	246
$C_{20}H_{12}O_8$	2,5-Dihydroxy-3,6-bis-(o-Carboxyphenyl)-1,4-benzoquinone	5-15 μ	S	Spec, Struct	Edwards	JAPC	10 (1960)	246
$C_{20}H_{12}O_8$	2,5-Dihydroxy-3,6-bis-(p-Carboxyphenyl)-1,4-benzoquinone	5-15 μ	S	Spec, Struct	Edwards	JAPC	10 (1960)	246
$C_{20}H_{13}Br$	1-Bromotriptycene	2-12 μ	Sol	Spec, Struct	Bartlett	JACS	76 (1954)	1088
$C_{20}H_{13}ClN_2O_2$	4-Benzamido-6-chloro-2-phenylbenzoxazole	-	-	Group freq	Adams	JACS	76 (1954)	2763
$C_{20}H_{13}ClN_2O_2$	4-Chloro-o-quinone-dibenzimide	-	-	Group freq	Adams	JACS	76 (1954)	2763
$C_{20}H_{13}ClO_2$	3-(4'-Chlorophenyl)-3-phenylphthalide	330-2000	S	Freq	Jakobsen	APS	14 (1960)	61
$C_{20}H_{13}I$	1-Iodotriptycene	2-12 μ	Sol	Spec, Struct	Bartlett	JACS	76 (1954)	1088
$C_{20}H_{13}IN_2O_8$	Iodosobenzene di-(p-nitrobenzoate)	665-1755	S, Sol	Assign	Bell	JCS	- (1960)	1209
$C_{20}H_{13}N$	3,4,5,6-Dibenzocarbazole	650-3600	S, Sol	Spec	Booth	JCS	- (1954)	598
$C_{20}H_{13}N_3O_6$	Anthracene-sym-trinitrobenzene	3-12 μ	S	Spec, Freq assign	Kross	SA	8 (1956)	142
$C_{20}H_{13}N_3O_6$	Phenanthrene 1,3,5-trinitrobenzene	-	-	Ident	Entel	JACS	77 (1955)	611
$C_{20}H_{14}$	9-Benzylidene-fluorene	700-1400	Sol	Spec	Scherf	CJC	38 (1960)	697
$C_{20}H_{14}$	1,1'-Binaphthyl	2-12 μ	Sol	Spec, Struct	O'Connor	JACS	76 (1954)	2368

$C_{20}H_{14}$	2,2'-Binaphthyl	2-12 μ	Sol	Spec, Struct	O'Connor	JACS	76 (1954)	2368
$C_{20}H_{14}$	Triptycene	2-12 μ	Sol	Spec, Struct	Bartlett	JACS	76 (1954)	1088
$C_{20}H_{14}Cl_2N_2O_2$	2,6-Dichloro-p-phenylene-dibenzamide	-	-	Spec	Adams	JACS	74 (1952)	3029
$C_{20}H_{14}Cl_2N_2O_2$	4,6-Dichloro-o-phenylene-dibenzamide	-	-	Ident	Adams	JACS	76 (1954)	2763
$C_{20}H_{14}N_2$	α,β -Azonaphthalene	600-1700	S	Spec, Freq	Le Feure	AJC	10 (1957)	26
$C_{20}H_{14}N_2$	α -1,2-Di-2'-quinolyl-ethylene	-	-	Ident	Hammick	JCS	- (1955)	2436
$C_{20}H_{14}N_2$	β -1,2-Di-2'-quinolyl-ethylene	-	-	Ident	Hammick	JCS	- (1955)	2436
$C_{20}H_{14}N_2O$	Deoxyquinaldoin	1625-5000	S	Band freq, H bond	Gill	N	183 (1959)	248
$C_{20}H_{14}N_2O_2$	1,2-Di-2'-quinolyl-ethene-1,2-diol	1625-5000	S	Band freq, H bond	Gill	N	183 (1959)	248
$C_{20}H_{14}N_2O_2$	1,2-Di-3'-isoquinolyl-ethene-1,2-diol	1625-5000	S	Band freq, H bond	Gill	N	183 (1959)	248
$C_{20}H_{14}N_2O_2$	O-Quinonedibenzimide	-	-	Group freq	Adams	JACS	76 (1954)	2763
$C_{20}H_{14}N_4$	Porphin	400-4000 700-3700	S S	Spec, H bond Spec, Band freq	Mason Rimington	JCS SA	- (1958) 12 (1958)	976 65
$C_{20}H_{14}N_4$	Tioporphin	400-4000	S	Spec, H bond	Mason	JCS	- (1958)	976
$C_{20}H_{14}N_6O_{12}$	Bis-(2,4-Dimethyl-3,5-dinitrobenzoyl)furoxan	-	S	Group freq, I	Boyer	JACS	77 (1955)	4238
$C_{20}H_{14}O$	1-Hydroxytripitycene	2-12 μ	Sol	Spec, Struct	Bartlett	JACS	76 (1954)	1088
$C_{20}H_{14}O_2$	5,6-Dimethyl-1,2-benzanthra-9,10-quinone	1600-1800	Sol	Group freq	Fuson	JACS	76 (1954)	2526
$C_{20}H_{14}O_2$	6,7-Dimethyl-1,2-benzanthra-9,10-quinone	1600-1800	Sol	Group freq	Fuson	JACS	76 (1954)	2526

$C_{20}H_{14}O_2$	Di- β -naphthol	2-12 μ	Sol	Spec, Struct	O'Connor	JACS	76 (1954)	2368
$C_{20}H_{14}O_2$	Cis-Di(1-naphthyl) diol	3 μ	-	H bond	Moriconi	JOC	22 (1957)	1651
$C_{20}H_{14}O_2$	trans-Di(1-naphthyl) diol	3 μ	-	H bond	Moriconi	JOC	22 (1957)	1651
$C_{20}H_{14}O_2$	3,3-Bis(phenyl)phthalide	330-2000	S	Freq	Jakobsen	APS	14 (1960)	61
$C_{20}H_{14}O_2S_2$	Diphenyl dithiophthalate	2.5-16 μ	Sol	Struct, Freq	Nyquist	SA	- (1959)	514
$C_{20}H_{14}O_4$	3,5-Diphenylphthalic acid	-	-	Ident	Cope	JACS	76 (1954)	6165
$C_{20}H_{14}O_4$	Phenolphthalein	1000-1800	S	Spec, Group freq, Struct	Davies	JCS	- (1954)	120
		1154-1740	-	Struct	Davies	JPR	15 (1954)	305
		330-2000	S	Freq, Shear Freq	Larsen	JPC	62 (1958)	119
					Jakobsen	APS	14 (1960)	61
$C_{20}H_{15}D$	9-Benzylfluorene-9-d ₁	700-1400	Sol	Spec	Scherf	CJC	38 (1960)	697
$C_{20}H_{15}Cl$	Chlorotriphenylethene	-	Sol	Band freq	Pinchas	JCS	- (1954)	863
$C_{20}H_{15}ClO$	Triphenylacetyl chloride	-	Sol	Group freq, I	Pinchas	JCS	- (1954)	863
$C_{20}H_{15}IO_4$	Iodosobenzene dibenzoate	665-1755	S, Sol	Assign, I	Bell	JCS	- (1960)	1209
$C_{20}H_{15}N$	β, β' -Dinaphthylamine	6500-6800	Sol	Spec, Band freq	Wulf	JACS	57 (1935)	1464
		-	Sol	Band freq, Ext. Coefficient	Russell	JCS	- (1955)	483
$C_{20}H_{15}NO$	3,3-Diphenylloxindole	-	-	Group freq	Hassall	JCS	- (1953)	1059
$C_{20}H_{15}NO_3$	N-Benzoyl-N-benzoyloxy-aniline	-	S	Freq	Freeman	JACS	80 (1958)	5954
$C_{20}H_{15}NO_3$	2-Nitro-1-naphtholnaphthalene	630-900	S, Sol	Correlation rule	Cencely	SA	7 (1955)	274
$C_{20}H_{15}NO_4$	Desyl-p-nitriphenylether	800-4000	S	Spec	Curtin	JACS	76 (1954)	494
$C_{20}H_{15}NO_4S$	9-(6-Nitro-9-methylfluorenyl)phenyl sulfone	1100-1400	S	Spec, Freq	Bavin	SA	16 (1960)	1312

$C_{20}H_{15}NO_6$	Desdimethylaminoterrarubrin	-	S	Group freq	Hochstein	JACS	75 (1953)	5455
$C_{20}H_{15}NO_8$	Terrinolide	-	S	Group freq	Hochstein	JACS	75 (1953)	5455
$C_{20}H_{15}N_3O$	α -Azido- α , α -diphenylacetophenone	-	-	Group freq	Boyer	JACS	75 (1953)	1642
$C_{20}H_{15}N_5O_2$	3,3'-Imino-bis(4-benzylidene-5-pyrazolone)	400-4000	-	Wave Number	Gagnon	CJC	37 (1959)	110
$C_{20}H_{15}N_5O_4$	2-Acetylcarbazole-2,4-dinitrophenylhydrazone	10.01-13.73 μ	S	Band freq, Ident	Acheson	JCS	- (1953)	1900
$C_{20}H_{15}N_5O_4$	3-Acetylcarbazole-2,4-dinitrophenylhydrazone	10.83-13.76 μ	S	Band freq, Ident	Acheson	JCS	- (1953)	1900
$C_{20}H_{16}$	9-Benzylfluorene	700-1400	Sol	Spec	Schref	CJC	38 (1960)	697
$C_{20}H_{16}$	2',6-Dimethyl-1,2-benzanthracene	670-3150	S	Spec, Band freq	Orr	JCS	- (1950)	218
$C_{20}H_{16}$	9,10-Dimethyl-1,2-benzanthracene	670-3150 650-2000	S S	Spec, Band freq Spec	Orr Cannon	JCS SA	- (1950) 4 (1951)	218 373
$C_{20}H_{16}$	1,2-Diphenylcyclooctatetraene	2-16 μ	Sol	Spec	Cope	JACS	74 (1952)	5136
$C_{20}H_{16}$	5-Ethyl-1,2-benzanthracene	670-3150	S	Spec, Band freq	Orr	JCS	- (1950)	218
$C_{20}H_{16}$	1',2',3',4'-Tetrahydro-3,4-benzpyrene	650-2010	S	Spec	Cannon	SA	4 (1951)	373
$C_{20}H_{16}$	Triphenylethene	-	Sol	Band freq	Pinchas	JCS	- (1954)	863
$C_{20}H_{16}Cl_2N_2O$	m-Chloroanil of-1-(m-chlorophenyl)-4,5,6,7-tetrahydroisatin	900-4000	S	Struct	O'Sullivan	JCS	- (1959)	876
$C_{20}H_{16}N_2$	N,N'-Dibenzylidene-4-phenylenediamine	-	Sol	Freq	Clougherty	JOC	22 (1957)	462

C ₂₀ H ₁₆ N ₂ O ₂	N,N'-Disalicylidene-o-phenylenediamine	-	Sol, L	H bond, Freq	Reeves	CJC	38 (1960)	1249
C ₂₀ H ₁₆ N ₂ O ₄ S	2-Phenyl- α -(5-phenyl-2,4-diketo- β -oxazolidyl)-2-thiazolidene acetic acid β -lactam	2-11 μ	Sol	Spec	Sheehan	JACS	73 (1951)	4752
C ₂₀ H ₁₆ N ₂ O ₆ S	2-Phenyl- α -(5-phenyl-2,4-diketo- β -oxazolidyl)-2-thiazolidene acetic acid sulfone β -lactam	2-11 μ	S	Spec, Struct	Sheehan	JACS	73 (1951)	4752
C ₂₀ H ₁₆ N ₄	Chlorin	400-4000	S	Spec, H bond	Mason	JCS	- (1958)	976
C ₂₀ H ₁₆ O	2-(1-Naphthyl)- β -methyl-indone	-	-	Spec	Bergmann	BSCF	- (1959)	634
C ₂₀ H ₁₆ O	α -Phenyldeoxybenzoin	-	-	Group freq	House	JACS	76 (1954)	1235
C ₂₀ H ₁₆ O ₂	Phenyl-(2-biphenyl)-glyoxal	2-12 μ	Sol	Spec, Band freq	Weisenborn	JACS	74 (1952)	1329
C ₂₀ H ₁₆ O ₂	Triphenylacetic acid	-	Sol	Freq Reference	Goulden Brook	SA JACS	6 (1954) 77 (1955)	129 2322
C ₂₀ H ₁₆ O ₂ S	9-Fluorenyl benzyl sulfone	1100-1400	Sol	Spec, Freq	Bavin	SA	16 (1960)	1312
C ₂₀ H ₁₆ O ₂ S	9-Fluorenyl p-tolyl sulfone	1100-1400	Sol	Spec, Freq	Bavin	SA	16 (1960)	1312
C ₂₀ H ₁₆ O ₂ S	9-(9-Methylfluorenyl)-phenyl sulfone	1100-1400	Sol	Spec, Freq	Bavin	SA	16 (1960)	1312
C ₂₀ H ₁₆ O ₄	2,5-Dihydroxy- β ,6-di-(p-tolyl)-1,4-benzoquinone	5-15 μ	S	Spec, Struct	Edwards	JAPC	10 (1960)	246
C ₂₀ H ₁₆ O ₄ S ₂	6,6'-Diethoxythiaindigo	5.8-6.1 μ	Sol	H bond	Weinstein	JACS	78 (1956)	2387
C ₂₀ H ₁₆ O ₅	Ethyl fulvinate	650-3800	-	Spec	Frank	JACS	72 (1950)	1824

$C_{20}H_{16}O_6$	2,5-Dihydroxy-3,6-di-(p-methoxyphenyl)-1,4-benzoquinone	5-15 μ	S	Spec, Struct	Edwards	JAPC	10 (1960)	246
$C_{20}H_{16}O_6$	Savinin	2-12.5 μ 2-15.5 μ	Sol Sol	Spec Spec, Struct, Group Freq Ident Group freq	Hartwell Shrecker	JACS JACS	75 (1953) 76 (1954)	235 4896
$C_{20}H_{16}O_8$	Dimethyl dibenzoyl-oxofumarate	- 700-1500	Sol Sol	Ident Group freq	Masumura Briggs	JACS AC	77 (1955) 29 (1957)	1906 904
$C_{20}H_{16}O_8$	Dimethyl dibenzoyl-oxofumarate	5.75-9.42 μ	Sol	Group freq, I	Goodwin	JACS	76 (1954)	5599
$C_{20}H_{16}Si$	Di-1-naphthylsilane	2-13 μ	Sol	Spec	West	JOC	18 (1953)	303
$C_{20}H_{16}Si$	Diphenylethyryl-silane	2-16 μ	-	Group freq	Kniseley	SA	15 (1959)	651
$C_{20}H_{17}BrN_4O$	1-p-Bromophenyl-3-p-methoxyphenyl-5-phenyl-formazan	680-1600	S	Spec, Freq, Assign	Le Fevre	AJC	9 (1956)	151
$C_{20}H_{17}Cl$	2-Chloro-1,1,1-triphenylethane	-	Sol	Group freq, I	Pinchas	JCS	- (1954)	863
$C_{20}H_{17}ClN_4O$	1-p-Chlorophenyl-3-p-methoxyphenyl-5-phenyl-formazan	680-1600	S	Spec, Freq, Assign	Le Fevre	AJC	9 (1956)	151
$C_{20}H_{17}Cl_2NO$	1-Methyl-3,5-di(0-chlorobenzylidene)-4-piperidone	-	S	Group freq	Leonard	JACS	77 (1955)	1852
$C_{20}H_{17}Cl_2NO$	1-Methyl-3,5-di-(p-chlorobenzylidene)-4-piperidone	-	S	Group freq	Leonard	JACS	77 (1955)	1852
$C_{20}H_{17}NOS$	10-(p-Methoxybenzyl)phenothiazine	-	-	Ident	Gilman	JOC	19 (1954)	560
$C_{20}H_{17}NO_3S$	1,4,5,8-Tetrahydro-9,10-anthraquinone mono-benzenesulfonimide	-	-	Group study	Adams	JACS	74 (1952)	2605

$C_{20}H_{17}NO_6$	Bicuculline	-	Sol	Group freq	Marion	JACS	73 (1951)	305
		-	Sol	Band freq	Wildman	JACS	77 (1955)	1248
$C_{20}H_{17}NO_8$	Desdimethylaminoapoterramycin	-	S	Group freq	Hochstein	JACS	75 (1953)	5455
$C_{20}H_{17}NO_5$	4-Amino-o-phenylene-dibenzamide	-	-	Ident	Adams	JACS	76 (1954)	2763
$C_{20}H_{17}NO_5$	1-Methyl-3,5-di-(o-nitrobenzylidene)-4-piperidone	-	S	Group freq	Leonard	JACS	77 (1955)	1852
$C_{20}H_{17}NO_5$	1-Methyl-3,5-di-(p-nitrobenzylidene)-4-piperidone	-	S	Group freq	Leonard	JACS	77 (1955)	1852
$C_{20}H_{17}NO_5$	1-Methyl-3,5-di-(m-nitrobenzyl)-4-pyridone	-	S	Group freq	Leonard	JACS	77 (1955)	1852
$C_{20}H_{18}$	Diphenylacetate	650-2010	S	Spec	Cannon	SA	4 (1951)	373
$C_{20}H_{18}$	5-Ethyl-7,8-dihydro-1,2-benzanthracene	650-2020	S	Spec	Cannon	SA	4 (1951)	373
$C_{20}H_{18}$	1,1,1-Triphenylethane	-	Sol	Group freq, I	Pinchas	JCS	- (1954)	863
$C_{20}H_{18}$	1,1,2-Triphenylethane	-	Sol	Band freq	Pinchas	JCS	- (1954)	863
$C_{20}H_{18}ClNO_7$	Isodesoxydimethylaminoaureomycin	-	Sol	Group freq	Stephens	JACS	76 (1954)	3568
$C_{20}H_{18}ClNO_8$	Isodesdimethylaminoaureomycin	-	S	Group freq	Stephens	JACS	76 (1954)	3568
$C_{20}H_{18}ClNO_9$	Desdimethylaminoaureomycinic acid	-	-	Band freq	Waller	JACS	74 (1952)	4979
$C_{20}H_{18}ClNO_8$	2,5-Dimethyl-3,6-dichloro-p-phenylene dibenzenesulfonamide	680-3240	S	Group freq	Adams	JACS	74 (1952)	2608

$C_{20}H_{18}INS$	N-C-Methylthiobenzylidene -N,N-diphenylammonium iodide	-	Sol	Group freq	Goulden	JSI	30 (1953)	139
$C_{20}H_{18}NO_4$ $2H_2O$	Berberine hydrochloride	2-15 μ	S	Group freq	Briggs	AC	29 (1957)	904
$C_{20}H_{18}N_2$	N-Methylstryrine	-	Sol	Band freq Ident	Witkop Mac Phillamy	JACS JACS	75 (1953) 77 (1955)	3361 4335
$C_{20}H_{18}N_2O$	α -Benzoin phenylhydra- zone	6400-7200 650-4000	Sol S	Spec, H bond Group study, H bond	Hendricks Tanner	JACS SA	58 (1936) 15 (1959)	1991 20
$C_{20}H_{18}N_2O$	β -Benzoin phenyl- hydrazone	6400-7200	Sol	Spec, H bond	Hendricks	JACS	58 (1936)	1991
$C_{20}H_{18}N_2O$	1-(2,6-Dimethylbenzyl)-7- hydroxy-9H-pyrid[3,4-b] indole	-	-	Ident	Huebner	JACS	77 (1955)	472
$C_{20}H_{18}N_2O$	7-Methoxy-1-(2-methyl- benzyl)-9H-pyrid[3,4b] indole	-	-	Ident	Huebner	JACS	77 (1955)	472
$C_{20}H_{18}N_2O_4$	Bis-(2,4-dimethyl- benzoyl) furoxan	-	S	Group freq, I	Boyer	JACS	77 (1955)	4238
$C_{20}H_{18}N_2O_7$	2-(6-p-Nitrobenzylidene- -amino-3,4-methylene- -dioxylbenzyl)-1-hydroxy- methylbutyrolactone	-	S	Group freq	Haslam	JCS	- (1955)	827
$C_{20}H_{18}N_4$	1,5-Diphenyl-3-p- methoxy-phenylformazan	680-1600	S	Spec, Freq, Assign	Le Fevre	AJC	9 (1956)	151
$C_{20}H_{18}N_4O$	1-p-Methoxyphenyl-3,5- diphenylformazan	680-1600	S	Spec, Freq, Assign	Le Fevre	AJC	9 (1956)	151
$C_{20}H_{18}O$	2,6-Dibenzylidene- cyclohexanone	-	S	Group freq	Leonard	JACS	75 (1953)	2714
$C_{20}H_{18}O$	dl-2,5-Dibenzylidene-3- methylcyclopentanone	-	S	Group freq	Leonard	JACS	77 (1955)	1852
$C_{20}H_{18}O$		-	Sol	Ident	Eisenbraun	JACS	77 (1955)	3383

			Ident	Mc Elvane	JACS	77 (1955)	1599
$C_{20}H_{18}O$	1-Keto-2-(1'-tetralyl- -idene)-1,2,3,4- -tetrahydronaphthalene	-	3.4 μ	Orchin	JACS	71 (1949)	2743
$C_{20}H_{18}OSi$	Acetyl triphenylsilane	Sol	Freq	Brook	JACS	82 (1960)	5102
$C_{20}H_{18}OSi$	Benzoyldiphenylmethyl- silane	Sol	Freq	Brook	JACS	82 (1960)	5102
$C_{20}H_{18}O_2$	Dimesitylenoylacetate	S	6.06-14.0 μ Group freq	Kuhn	JACS	72 (1950)	5058
$C_{20}H_{18}O_2$	2-Hydroxy-1-naphthyl mesityl ketone	-	Group freq	Fuson	JACS	77 (1955)	3781
$C_{20}H_{18}O_2$	4-Hydroxy-1-naphthyl mesityl ketone	-	Group freq	Fuson	JACS	77 (1955)	3781
$C_{20}H_{18}O_2$	5-Isopropylidene-3,4- diphenyl-4-hydroxy- Δ^2 -cyclopentenone	Sol	1600-1800 Group freq	Fuson	JACS	76 (1954)	2526
$C_{20}H_{18}O_2Si$	Methyl triphenylsilane- carboxylate	-	Ident	Brook	JACS	77 (1955)	2322
$C_{20}H_{18}O_3$	1-3-Acetyl-14,15- dehydroequilenin	Sol	Group freq	Mc Niven	JACS	76 (1954)	1725
$C_{20}H_{18}O_4$	1-11-Oxoequilenin acetate	-	Group freq	Mc Niven	JACS	76 (1954)	1725
$C_{20}H_{18}O_5$	2-Hydroxy-3,4,7,8-dibenzo [3.2.1]bicyclooctadiene -1,6-dicarboxylic-2,6- cis acid dimethyl ester	-	Ident	Vaughan	JACS	76 (1954)	4130
$C_{20}H_{18}O_5$	2-Hydroxy-3,4,7,8-dibenzo [3.2.1]bicyclooctadiene -1,6-dicarboxylic-2,6- trans acid dimethyl ester	-	Ident	Vaughan	JACS	76 (1954)	4130

$C_{20}H_{18}O_5$	2-Hydroxydibenzo[2.2.2]bicyclooctadiene-2,3-trans-dicarboxylic acid dimethyl ester	-	-	Ident	Vaughan	JACS	76 (1954)	4130
$C_{20}H_{18}O_6$	Asarinin	-	737-1255	Table, I	Crombie	JCS	- (1955)	995
$C_{20}H_{18}O_6$	0 ⁵ ,0 ⁶ -Dimethyljacareubin	Sol	-	Group study	King	JCS	- (1953)	3932
$C_{20}H_{18}O_6$	l-Hinokinin	Sol	2-15.5 μ	Spec, Struct, Group freq	Shrecker	JACS	76 (1954)	4896
$C_{20}H_{18}O_6$	d-Isihinokinin	Sol	700-1500	Group freq	Briggs	AC	29 (1957)	904
$C_{20}H_{18}O_6$		Sol	2-15.5 μ	Spec, Struct, Group freq	Shrecker	JACS	76 (1954)	4896
$C_{20}H_{18}O_6$		Sol	700-1500	Group freq	Briggs	AC	29 (1957)	904
$C_{20}H_{18}O_6$	Sesamin	-	-	Band freq	Beroza	JACS	77 (1955)	3332
$C_{20}H_{18}O_7$	Sesamolin	-	-	Band freq	Beroza	JACS	77 (1955)	3332
$C_{20}H_{18}O_8$	Adipoyl dibenzoyl peroxide	Sol	-	Group freq, Table	Davison	JCS	- (1951)	2456
$C_{20}H_{18}O_8$	2-Naphthylidiacetyl- β -d-glucuronolactone	S	2-14 μ	Spec, Band freq, Assign	Tsou	JACS	74 (1952)	5605
$C_{20}H_{18}S_3$	Triphenyl trithioorthoacetate	S	691-1300	Band freq, Table	Tarbell	JACS	75 (1953)	1668
$C_{20}H_{19}ClNO_3$	N-Dibenzyl phosphoryl-p-chloroaniline	L,S	3-15 μ	Spec, Group freq	Li	JACS	77 (1955)	3519
$C_{20}H_{19}ClNO_5$	2,5-Dimethyl-3-chloro-p-phenylene dibenzene-sulfonamide	S	690-3240	Group freq	Adams	JACS	74 (1952)	2608
$C_{20}H_{19}F_2O_4$	Heptafluorobutyric acid dioxane	-	-	Freq	Haystschein	JACS	73 (1951)	5139
$C_{20}H_{19}N$	Triphenylethylamine	Sol	6450-6800	Band freq	Liddell	JACS	55 (1933)	3574

C ₂₀ H ₁₉ N	Triphenylethylamine	6450-6600	Sol	Band freq	JACS	77 (1955)	1852
C ₂₀ H ₁₉ NO	1-Methyl-3,5-dibenzylidene-4-piperidone	-	S	Group freq	Leonard		
C ₂₀ H ₁₉ NO	1-Methyl-3,5-dibenzyl-4-pyridone	-	S	Group freq	Leonard	77 (1955)	1852
C ₂₀ H ₁₉ NO	1-(2-Phenylethyl)-4-ethyl-4-phenyl-2,3,5-pyrrolidinetriene	-	-	Spec	Skinner	72 (1950)	5569
C ₂₀ H ₁₉ NO ₅	Chelidonine	-	Sol	Band freq	Marion	73 (1951)	305
C ₂₀ H ₁₉ NO ₅	Protopine	-	Sol	Group freq	Marion	73 (1951)	305
C ₂₀ H ₁₉ NO ₆	4-(3':4'-Methylenedioxy-phenylethyl)-7,8-dimethoxyhomophthalimide	600-3500	S, Sol	Assign, Struct	Bluhm	13 (1958)	93
C ₂₀ H ₁₉ NO ₈	Desdimethylaminodesoxy-terramycin	-	Sol	Group freq	Hochstein	75 (1953)	5455
C ₂₀ H ₁₉ NO ₈	Isodesoxydesdimethyl-aminoterramycin	-	Sol	Group freq	Hochstein	75 (1953)	5455
C ₂₀ H ₁₉ NO ₉	Desdimethylamino-terramycin	-	Sol	Group freq	Hochstein	75 (1953)	5455
C ₂₀ H ₁₉ N ₃	4-N-Methyl-N-benzylamino-azobenzene	600-1700	S	Spec, Freq	Le Fevre	10 (1957)	26
C ₂₀ H ₁₉ N ₃ O ₃ S	2-Phenyl-α-(N-benzyl-oxalamylamino)-2-thiazolidine acetic acid β-lactam	2-8 μ	Sol	Spec, Band freq	Sheehan	73 (1951)	4756
C ₂₀ H ₁₉ N ₃ O ₃ S	erythro-Ethyl-3-acetyl-2,5-di-p-nitrophenyl-oxazolidine-4-carboxylate	-	-	Group freq	Bergmann	- (1953)	2564
C ₂₀ H ₁₉ OP	Dibenzylphenylphosphine oxide	-	-	Group freq	Mann	- (1954)	2832

$C_{20}H_{20}NO_3$	Dibenzyl anilino-phosphonate	-	S, Sol	Group freq Group freq	Bellamy Bell	JCS JACS	- 76	(1952) (1954)	1701 5185
$C_{20}H_{20}OS_4$	3,3'-Diallyl-5-p-dimethyl-aminophenylimino-4'-oxo-2,2'-dithio-4,5'-dithiazolidinylidene	-	-	Group freq	Mackie	JCS	-	(1954)	3919
$C_{20}H_{20}O$	1-Ke to-2-(1',2',3',4'-tetrahydro-1'-naphthyl)-1,2,3,4-tetrahydronaphthalene	3.4 μ	-	Spec, Struct, Anal	Orchin	JACS	71	(1949)	2743
$C_{20}H_{20}OSi$	Triphenylsilyl methyl ether	-	-	Inductive effect	Josien	CPR	249	(1959)	826
$C_{20}H_{20}OSi$	Phenyl-p-ami syl-o-tolyl-silane	2-16 μ	Sol	Group freq	Kniseley	SA	15	(1959)	651
$C_{20}H_{20}O_2$	cis-Dimesitylenyl-ethylene	6.05-13.35 μ	S	Group freq	Kuhn	JACS	72	(1950)	5058
$C_{20}H_{20}O_2$	trans-Dimesitylenyl-ethylene	6.03-13.9 μ	S	Group freq	Kuhn	JACS	72	(1950)	5058
$C_{20}H_{20}O_2$	2,2-Diphenyl-4-oxo-8-methyl-3-oxabicyclo[3.3.0]octane	-	Sol	Group freq	Mc Elvane	JACS	77	(1955)	1599
$C_{20}H_{20}O_2$	β -Duroyl- β -phenylpropionic acid lactone	-	-	Group freq	Fuson	JACS	74	(1952)	1629
$C_{20}H_{20}O_2$	1-Mesityl-5-phenyl-2,4-pentadien-2-ol-1-one	-	Sol	Band freq, I	Fuson	JACS	75	(1953)	5952
$C_{20}H_{20}O_3$	α -Equilenin acetate	-	Sol	Band freq	Scheer	JACS	77	(1955)	3300
$C_{20}H_{20}O_3$	Equilenin acetate	1580-3100	Sol	Assign Spec, I	Jones Jones	JACS JACS	70 72	(1948) (1950)	2024 86
$C_{20}H_{20}O_4$	Diethyl diphenylmaleate	-	Sol	Group freq, Band freq	Goodwin	JACS	75	(1953)	4273

Formula	Compound Name	Wavenumber	Phase	Group freq	Author	Year	Page
C ₂₀ H ₂₀ O ₄	d-14 -Hydroxyequilenin -3-acetate	-	-	Group freq	Mc Niven	76 (1954)	1725
C ₂₀ H ₂₀ O ₄	3-Y-Ke tobutyl-3-carbome- -thoxy-4-ke to-1,2,3,4- tetrahydrophenanthrene	-	Sol	Group freq	Wilds	17 (1952)	1154
C ₂₀ H ₂₀ O ₅	Galbacin	700-5000	S	Group freq	Briggs	29 (1957)	904
C ₂₀ H ₂₀ O ₅	2-Methyl-3-(3',4'- dime thoxyphenyl)-5,6- dime thoxyindenone	-	Sol	Band freq	Walker	75 (1953)	3387
C ₂₀ H ₂₀ O ₆	α-Conidendrin	700-3600 2-15 μ	S	Spec, Assign Spec Ident	Spearin White Swidinsky	15 (1950) 22 (1950) 76 (1954)	984 768 1148
C ₂₀ H ₂₀ O ₆	β-Conidendrin	700-3600 2-15 μ	S	Spec, Assign Spec Ident	Spearin White Swidinsky	15 (1950) 22 (1950) 76 (1954)	984 768 1148
C ₂₀ H ₂₀ O ₇	3,3',4',5,7-Penta- methoxyflavone	1550-4000	S	Group freq	Hergert	75 (1953)	1622
C ₂₀ H ₂₀ O ₈	Ethyl 2-(3',4',5'- trime thoxy benzoyl) piperonylate	-	Sol	Band freq	Walker	75 (1953)	3390
C ₂₀ H ₂₀ Si	Dibenzylphenylsilane	2-16 μ	Sol	Group freq	Kniseley	15 (1959)	651
C ₂₀ H ₂₀ Si	Diphenyl-β-phenylethylsilane	2-16 μ	Sol	Freq	Kniseley	15 (1959)	651
C ₂₀ H ₂₁ D ₂ O ₃	Δ ^{1,3,5:10} -Estratrienol-3- one-17-acetate-d ₃	-	Sol	Group freq	Jones	74 (1952)	5662
C ₂₀ H ₂₁ N ₂	Dihydrobryrine methio- -dide	-	Sol	Band freq	Witkop	75 (1953)	4474
C ₂₀ H ₂₁ NO ₄	1-Methyl-4-(3',4'- dime thoxyphenyl)-6,7- dime thoxyisoquinoline	-	Sol	Band freq	Walker	76 (1954)	3999
C ₂₀ H ₂₁ NO ₄	Papaverine	-	Sol S	Band freq Band freq	Marion Wildman	73 (1951) 77 (1955)	305 1248

$C_{20}H_{21}NO_5$	3,4-Dihydropapaveraldine	-	Sol	Band freq	Walker	JACS	76 (1954)	3999
$C_{20}H_{21}N_3O_3S$	4-(2-Cyano-2-propoxy)-N-(2-cyano-2-propyl)-N-benzenesulfonamide	-	-	Group freq	Gingrass	JCS	- (1954)	1920
$C_{20}H_{22}N_2$	N-Methyl tetrahydropryridine	-	Sol	Band freq	Witkop	JACS	75 (1953)	4474
$C_{20}H_{22}N_2O_2$	Akuammicine	-	S	Component of mixture Group freq	Robinson Robinson	JCS	- (1954) - (1955)	3522 2049
$C_{20}H_{22}N_2O_2$	Gelsemine	-	-	Struct Group freq Ident	Kotes Marion Schwarz	JACS	72 (1950) 73 (1951) 75 (1953)	2308 305 4372
$C_{20}H_{22}N_4O_5$	5-[4-(β -Phenylthioureido) butyl]-3-phenyl-2-thiohydantoin	2.5-15 μ	S,L	Spec, Ident	Ramachandran	AC	27 (1955)	1734
$C_{20}H_{22}N_4O_5S_2$	5-[5-Hydroxy-4-(β -phenylthioureido) butyl]-3-phenyl-2-thiohydantoin	2.5-15 μ	S	Spec, Ident	Ramachandran	AC	27 (1955)	1734
$C_{20}H_{22}O$	Duryl o-isopropenyl-phenyl ketone	-	-	Ident, Group freq	Fuson	JACS	77 (1955)	2503
$C_{20}H_{22}OS$	2,3-Diphenyl-1-oxa-4-thiaspiro[4.5] decane	-	-	Ident	Djerassi	JACS	77 (1955)	568
$C_{20}H_{22}O_2$	1-Methylisoequilenin methyl ether	-	S	Ident	Dreiding	JACS	75 (1953)	3162
$C_{20}H_{22}O_3$	β -Duroyl- β -phenyl-propionic acid	-	Sol	Group freq	Fuson	JACS	74 (1952)	1629
$C_{20}H_{22}O_3$	$\Delta^{1,3,5,10,7}$ -Estrate traenol-3-one-17-acetate	-	-	Assign	Jones	JACS	70 (1948)	2024
$C_{20}H_{22}O_3$	Ethyl p-duroyl benzoate	-	-	Ident	Fuson	JACS	77 (1955)	3776
$C_{20}H_{22}O_4$	1,3-Bis(4-pentenyl-acetyl)-benzene	1500-3500	S	Freq, Assign, Struct	Martin	JACS	80 (1958)	4891

20 22 4 acetyl-benzene

C ₂₀ H ₂₂ O ₄	4-(m-Carboxyphenyl)-3-(p-methoxyphenyl)-2-hexanone	-	-	Ident	Burekhalte	JACS	76 (1954)	4112
C ₂₀ H ₂₂ O ₅	Cis-2-Methyl-3-(3',4'-dimethoxyphenyl)-5,6-dimethoxy-1-indanone	-	Sol	Band freq	Walker	JACS	75 (1953)	3387
C ₂₀ H ₂₂ O ₅	trans-2-Methyl-3-(3',4'-dimethoxyphenyl)-5,6-dimethoxy-1-indanone	-	Sol	Band freq	Walker	JACS	75 (1953)	3387
C ₂₀ H ₂₂ O ₇	Diethylene glycol bis (tolyl carbonate)	2-15 μ	L	Spec	Kendall	APS	7 (1953)	179
C ₂₀ H ₂₂ O ₇	3,3',4',5',7-Pentamethoxy-flavanone	1550-4000	S	Group freq	Hergert	JACS	75 (1953)	1622
C ₂₀ H ₂₃ ^D ₃ O ₂	Δ ^{5,7,9} -Estratrieno-1-17β-acetate-d ₃	-	Sol	Group freq	Jones	JACS	74 (1952)	5662
C ₂₀ H ₂₃ ^N O ₃	n-Propyl-p-(anisylamino)-O-methyl cinnamate	2-12 μ	L	Spec	Taschek	JCP	6 (1938)	542
C ₂₀ H ₂₃ ^N O ₅	Trimethylcolchicine acid methyl ether	-	S	Band freq	Raffauf	JACS	75 (1953)	5292
C ₂₀ H ₂₃ ^N O ₅	Isotrimethylcolchicine acid methyl ether	-	S	Band freq	Raffauf	JACS	75 (1953)	5292
C ₂₀ H ₂₄	Cycloeicosa-1,3,11,13-tetrayne	3-15 μ	S	Spec	Wolousky	JACS	81 (1959)	4600
C ₂₀ H ₂₄	Cis-1,2-Diphenylcyclooctane	2-16 μ	Sol	Spec	Cope	JACS	74 (1952)	5136
C ₂₀ H ₂₄	trans-1,2-Diphenylcyclooctane	2-16 μ	Sol	Spec	Cope	JACS	74 (1952)	5136
C ₂₀ H ₂₄	Cis-1,3-Diphenylcyclooctane	-	-	Ident	Cope	JACS	76 (1954)	2757

$C_{20}H_{24}$	2,4,6,2',4',6'- Hexamethylstilbene	5-15 μ	S	Spec, Band freq	Thompson	JCS - (1950)	214
$C_{20}H_{24}$	2,4,6,2',4',6'- Hexamethyl-trans- stilbene	960	Sol	Group study	Orr	SA 8 (1956)	218
$C_{20}H_{24}$	p,p'-Tetramethylene-1, 4-diphenylbutane	2-12 μ	Sol	Band freq	Cram	JACS 76 (1954)	726
$C_{20}H_{24}$	1,3,3,6-Tetramethyl-1- p-tolylindan	7.5-14 μ	Sol	Spec	Ipatieff	JACS 70 (1948)	2123
$C_{20}H_{24}BrO_2$	Octabromoarachidonic acid	700-1800	S	Spec, Band freq	Sinclair	JACS 74 (1952)	2578
$C_{20}H_{24}N_2$	2,4,6,8-Decatetraenal- azine	1400-2000	S	Spec	Blout	JACS 70 (1948)	194
$C_{20}H_{24}N_2O_2$	Akuammigol(+1/3 molec. chloroform)	-	S	Band freq, Group freq	Robinson	JCS - (1954)	3479
$C_{20}H_{24}N_2O_2$	Bis-(n-Benzyl)adipamide	700-1700	S	Spec	Stafford	AC 21 (1949)	1454
$C_{20}H_{24}N_2O_2$	1-[(1-Hydroxy-2-methyl- cyclohexyl)-methyl]-7- methoxy-9H-pyrid[3,4b] indole	-	-	Group study	Huebner	JACS 77 (1955)	472
$C_{20}H_{24}N_2O_2$	Quinine	-	Sol	Group freq	Marion	JACS 73 (1951)	305
$C_{20}H_{24}N_2O_2$	Reserpone	-	S	Group freq	Huebner	JACS 77 (1955)	472
$C_{20}H_{24}N_2O_2$	Tetrahydroalstonol	1490-3670	S	Spec, Struct, Band freq	Elderfield	JOC 16 (1951)	506
$C_{20}H_{24}N_2O_2$	py-Tetrahydroserpentinol	-	S	Group freq, Struct	Klohs	JACS 76 (1954)	1332
$C_{20}H_{24}N_2O_6S$	Methyl 5-phenyl(2-carbo- methoxyethyl) penicillina- mate	2-11 μ 2-11 μ	Sol Sol	Spec Spec, Band freq, Struct	Sheehan Sheehan	JACS 72 (1950) JACS 73 (1951)	3828 4376
$C_{20}H_{24}N_2O_7$	2,4-Dinitro-17 β -acetoxy- estradiol	600-4000	S	Spec, Assign, H bond	Pickering	JACS 80 (1958)	680

				Ident	Fuson	JACS	75 (1953)	5744
$C_{20}H_{24}N_4O_4$	2,2'-Dinitro-4,4'(hexamethylenediimino)bibenzyl	-	-	-	-	JACS	75 (1953)	5744
$C_{20}H_{24}N_4O_7$	Dihydropicricrotonide-2,4-dinitrophenyl-hydrazone	2-13 μ	Sol	Spec, Band freq	Conroy	JACS	74 (1952)	491
$C_{20}H_{24}N_6O_5$	6-Dimethylamino-9-(3'-Carbobenzoxymino-3'-deoxy- β -D-ribofuranosyl)-purine	-	S	Group freq	Baker	JACS	77 (1955)	15
$C_{20}H_{24}N_6O_5$	6-Dimethylamino-9-(3'-vanillylideneamino-3'-deoxy- α -D-ribofuranosyl)-purine	-	-	Group freq	Baker	JACS	77 (1955)	2396
$C_{20}H_{24}O$	β , β -Dimesitylvinyl alcohol	2.7-2.9 μ	-	Group study Spec	Fuson Buswell	JACS JACS	68 (1946) 69 (1947)	389 770
$C_{20}H_{24}O_2$	p,p'-Bibenzyl-1,6-n-hexane cyclodiether	-	-	Group freq	Fuson	JACS	75 (1953)	1325
$C_{20}H_{24}O_2$	dl- Δ^9 , (11), 16-Bisdehydro-20-norprogesterone	2-12 μ	Sol	Spec	Woodward	JACS	74 (1952)	4223
$C_{20}H_{24}O_2$	1-Carboxy-1,12-dimethyl-10-hydroxy-7-isopropyl-1,2,3,4,11,12-hexahydrophenanthrene lactone	-	-	Band freq	Parham	JACS	77 (1955)	1166
$C_{20}H_{24}O_2$	17-Ethynyl-1,3,5(10)-estra-1,3,4,11,12-diol	2-12 μ 2-15 μ 2.5-3.5 μ	S, Sol Sol Sol	Spec Spec Group study	Pheasant Tarpley Kabasakalian	JACS AC AC	72 (1950) 24 (1952) 31 (1959)	4303 315 375
$C_{20}H_{24}O_2$	dl-3-keto-15-formyl- Δ^4 ,9(11),15 androstatriene	2-12 μ	S	Spec	Woodward	JACS	74 (1952)	4223

$C_{20}H_{24}O_3$	$\Delta^{1,3,5(10)}$ -Estratrien-3- -ol-17-one acetate	- 1580-3100	- Sol Sol Sol Sol Sol Sol	Assign Spec, Band freq, I Group freq, I Group freq Group freq Band freq Band freq, Ident	Jones Jones Jones Jones Jones Scheer Jones	70 (1948) 72 (1950) 74 (1952) 74 (1952) 74 (1952) 77 (1955) 78 (1956)	2024 86 80 5648 5662 3300 1152
$C_{20}H_{24}O_3$	Methyl-3-hydroxy- 1,3,5(10),6-estrate- traene-17 β -carboxylate	-	Sol	Band freq	Sandova	77 (1955)	148
$C_{20}H_{24}O_4$	3-Acetoxy-13-hydroxy-13: 17-seco- $\Delta^{1,3,5(10)}$ -estratrien- -17-oic acid lactone	1000-1900	Sol	Spec, Group freq	Jones	81 (1959)	5242
$C_{20}H_{24}O_4$	Esterololactone acetate	- 700-4000	S S	Group freq, Ident Spec, Freq, H bond	Fried Gual	75 (1953) 13 (1958)	5764 248
$C_{20}H_{24}O_4$	Esterololactone acetate-3	-	Sol	Group freq	Jones	72 (1950)	956
$C_{20}H_{24}O_6$	α -Methyl- β,β -di-(3,4- dimethoxyphenyl) propionic acid	-	Sol	Band freq	Walker	75 (1953)	3387
$C_{20}H_{24}O_6$	Methyl gibberellate	-	Sol,S	Group freq	Cross	- (1954)	4670
$C_{20}H_{24}O_8$	1-Desoxy-2,4-methylene -3,5-ditosyl-d-xylitol	-	Sol	Ident, Spec, Iso	Zissis	75 (1953)	129
$C_{20}H_{24}O_8$	2,4-Dicarbe thoxy-3-(3':4' methylenedi oxyphe nyl) 5-hydroxy-5-methylcyclo- hexanone	-	Sol	Freq	Walker	77 (1955)	3664
$C_{20}H_{24}O_{11}$	Trimethyl trimethyl- chebulate	-	S	Band freq, I	Haworth	- (1954)	3611
$C_{20}H_{25}BrO_2$	p-Hydroxy-p'-(ω -bromo- n-hexoxy)-bi benzyl	-	-	Group freq	Fuson	75 (1953)	1325
$C_{20}H_{25}N$	4-Dimethylamino-2:5 - die thyls tillbene, trans	960	Sol	Group study	Orr	8 (1956)	218

$C_{20}H_{26}N_2$	N-Methyllyohimbane	2-12 μ	Sol	Spec, Band freq	Witkop	JACS	75 (1953)	3361
$C_{20}H_{26}N_2 \cdot HCl$	N-Methyllyohimbane hydrochloride	2-12 μ	Sol	Spec, Band freq	Witkop	JACS	75 (1953)	3361
$C_{20}H_{26}N_2O$	N-[2-(Benzylmethylamino) propyl] propionanilide	3.38-3.60 μ	S	Group freq	Wright	JOC	24 (1959)	1362
$C_{20}H_{26}N_2O$	11-Methoxyalloyohimbane	-	Sol	Ident	Van Tamelen	JACS	77 (1955)	3930
$C_{20}H_{26}N_2O \cdot HCl$	Methylhexahydrosempervirine hydrochloride (carbinolamine form)	2-12 μ	Sol	Spec, Band freq	Witkop	JACS	75 (1953)	3361
$C_{20}H_{26}N_2O$	Tetrahydrodesoxygelsemine	-	-	Struct	Kates	JACS	72 (1950)	2308
$C_{20}H_{26}N_2O_2$	Ajmaline	-	S	Group freq, Struct	Anet	JCS	- (1954)	1242
		-	-	Ident	Djerassi	JACS	76 (1954)	4463
		-	-	Ident	Hochstein	JACS	77 (1955)	3551
		2-15 μ	S	Spec	Garman	TE	1 (1957)	328
$C_{20}H_{26}N_2O_2$	Isoajmaline	-	S	Group freq	Anet	JCS	- (1954)	1242
$C_{20}H_{26}N_2O_2 \cdot HCl$	Ajmaline hydrochloride	-	S	Group freq	Anet	JCS	- (1954)	1242
$C_{20}H_{26}N_2O_2 \cdot 2HCl$	Ajmaline dihydrochloride	-	S	Group freq	Anet	JCS	- (1954)	1242
$C_{20}H_{26}N_2O_2 \cdot HCl \cdot 2H_2O$	Ajmaline hydrochloride dihydrate	-	S	Group freq	Anet	JCS	- (1954)	1242
$C_{20}H_{26}N_2O_2$	Deacetylstrychnospermine	-	-	Group freq	Anet	JCS	- (1955)	2253
$C_{20}H_{26}N_2O_2$	Hexahydroalstonol	1490-3700	S	Spec, Struct	Elderfield	JOC	16 (1951)	506

C ₂₀ H ₂₆ N ₂ O ₂	Hexahydroserpentinol	-	S	Group freq, Struct	Klohs	JACS	76 (1954)	1332
C ₂₀ H ₂₆ N ₂ O ₂	α-Yohimbyl alcohol	1400-3600	S	Spec, Struct	Elderfield	JOC	16 (1951)	506
C ₂₀ H ₂₆ N ₂ O ₂	Gelsemicine	-	-	Ident	Mac Phillamy	JACS	77 (1955)	1071
C ₂₀ H ₂₆ N ₂ O ₂	Diethyl 4,6-dimethyl-skatylacetamido-malonate	-	-	Ident	Mac Phillamy	JACS	77 (1955)	4335
C ₂₀ H ₂₆ N ₂ O ₂	Yohimbhydrozide	-	-	Ident	Schwarz	JACS	75 (1953)	4372
C ₂₀ H ₂₆ N ₂ O ₂	2,6-Di- <i>t</i> -butyl-4-phenyl phenol	3 μ	Sol	Ident	Snyder	JACS	75 (1953)	1873
C ₂₀ H ₂₆ O	2,2-Dimethyl ethanol	-	-	Group freq	Huebner	JACS	77 (1955)	469
C ₂₀ H ₂₆ O	α,α'-Di-(2- <i>m</i> -Xyl) ethyl ether	-	L, Sol, S	Spec, Freq	Coggeshall	JACS	69 (1947)	1620
C ₂₀ H ₂₆ O	Retinene ₂	700-3200	L	Group study	Fuson	JACS	68 (1946)	389
C ₂₀ H ₂₆ O ₂	Δ ^{1,3,5:10} -17-Acetylestria-trienol-3	-	Sol	Struct	Schwartzman	JACS	76 (1954)	781
C ₂₀ H ₂₆ O ₂	Bis-(2-hydroxy-3,5-dimethylphenyl)-isopropylmethane	3 μ	Sol	Spec, Group freq	Farrar	JCS	- (1952)	2657
C ₂₀ H ₂₆ O ₂	cis-Diduryldiol	3 μ	Sol	Group freq, Spec, Struct	Jones	JACS	74 (1952)	2820
C ₂₀ H ₂₆ O ₂	Δ ^{1,3,5(10)} -Estratrien-ol acetate	3 μ	Sol	H bond	Sears	JACS	71 (1949)	4110
C ₂₀ H ₂₆ O ₂	Δ ^{5,7,9} -Estratrienol-17 acetate	700-1400	-	H bond	Moricone	JOC	22 (1957)	1651
C ₂₀ H ₂₆ O ₂	17α-Ethynyl-19-nor-testosterone	3100-3400	Sol	Spec, Ident	Jones	JACS	78 (1956)	1152
C ₂₀ H ₂₆ O ₂		-	Sol	Group freq	Jones	JACS	74 (1952)	5648
C ₂₀ H ₂₆ O ₂		-	Sol	Group freq	Jones	JACS	74 (1952)	5662
C ₂₀ H ₂₆ O ₂		-	S	Ident, Freq	Filler	CIL	- (1957)	1322

$C_{20}H_{26}O_2$	3 β -Hydroxy-17-acetyl-5,7,9-estratriene	-	Sol	Band freq	Scheer	JACS	77 (1955)	3300
$C_{20}H_{26}O_2$	$\Delta^{1,3,5:10}$ -1-Methoxy-4-methylestratrienone-17	-	S	Band freq	Dreiding	JACS	75 (1953)	3159
$C_{20}H_{26}O_2$	1-Methyl-3-methoxy- $\Delta^{1,3,5:10}$ -estratrienone-17	-	Sol	Group freq	Jones	JACS	72 (1950)	956
$C_{20}H_{26}O_2$	19-Nor-17 α -ethynyl- Δ^4 -androstene-17 β -ol-3-one	-	Sol	Band freq	Djerassi	JACS	76 (1954)	4092
$C_{20}H_{26}O_3$	2 α -Carboxy-2,6-dimethyl-6 α -hydroxycyclohexanyl- α -m-isopropylbenzyl ketone 2,6-lactone	-	-	Group freq, Struct, I	Parham	JACS	76 (1954)	5380
$C_{20}H_{26}O_3$	2 α -Carboxy-2,6-dimethyl-6 α -hydroxycyclohexanyl- β -m-isopropylbenzyl ketone 2,6-lactone	-	L	Group freq, Struct, I	Parham	JACS	76 (1954)	5380
$C_{20}H_{26}O_3$	$\Delta^{13(17a)}$ -3,5-Cyclo-etiogeranyl-6 β -ol-11,17-dione-6-methyl ether	-	S	Band freq, Ident	Herz	JACS	76 (1954)	5621
$C_{20}H_{26}O_3$	1 β ,6-endo-Dimethyl-6-exo-9 α -dihydroxy-2,3-(1'-methoxy-7'-8'-dihydro-6',5'-naphtho) Δ^2 -bicyclo[3.3.1]nonene	3100-3750	Sol	H bond	West	JOC	25 (1960)	1976
$C_{20}H_{26}O_3$	1 β ,6-endo-Dimethyl-6-exo-9 β -dihydroxy-2,3-(1'-methoxy-7'-8'-dihydro-6,5-naphtho) Δ^2 -bicyclo[3.3.1]nonene	3100-3750	Sol	H bond	West	JOC	25 (1960)	1976

$C_{20}H_{26}O_3$	$\Delta^{1,3,5:10}$ -1-Methyl- β -hydroxy-17-carboxy-estra-1,3,5,10-tiene	-	Sol	Group freq	Jones	JACS	72 (1950)	956
$C_{20}H_{26}O_3$	Methyl β -hydroxy- $\Delta^{1,3,5(10)}$ -estra-1,3,5,10-tiene-17 β -carboxylate	-	Sol	Band freq	Sandova	JACS	77 (1955)	148
$C_{20}H_{26}O_4$	Dicyclohexyl phthalate	2-15 μ	S	Spec	Kendall	APS	7 (1953)	179
$C_{20}H_{26}O_5$	1,14-Dimethyl-2-keto-6,7-diacetoxy- $\Delta^{11,9}$ -decahydrophenanthrene	2-12 μ	Sol	Band freq	Woodward	JACS	74 (1952)	4223
$C_{20}H_{26}O_6$	2,4b-Dimethyl-2-carbomethoxy-7-ethylene-dioxy 1,2,3,4,4a,4b,5,6,7,8,10,10a β -dodecahydrophenanthrene-1,4-dione	-	S	Group freq	Lukes	JACS	75 (1953)	1707
$C_{20}H_{26}O_7$	Di-(2,3,4-trimethoxybenzyl) ether	802-3350	Sol	Table	Gutsche	JACS	76 (1954)	1776
$C_{20}H_{26-28}O_7$	Visnagan	666-3460	-	Assign	Cavallito	JOC	15 (1950)	820
$C_{20}H_{27}ClO_3$	4-Chloro-19-nortestosterone acetate	1530-1800	S	Group freq	Meda	SA	13 (1958)	75
$C_{20}H_{27}NO$	Dehydroabiectane-1-isocyanate	-	-	Group freq	Zeiss	JACS	75 (1953)	5935
$C_{20}H_{27}N_2O_2 \cdot HCl$	Ajmaline oxime hydrochloride	-	S	Group freq	Anet	JCS	- (1954)	1242
$C_{20}H_{27}N_3O_2$	Isoajmaline oxime	-	S	Group freq	Anet	JCS	- (1954)	1242
$C_{20}H_{27}O_3B$	Diphenyl mono(2-ocetyl) borate	700-1700	L	Spec, Freq	Werner	AJC	9 (1956)	137
$C_{20}H_{28}$	Diamylnaphthalene	2-15 μ	L	Spec	Kendall	APS	7 (1953)	179

$C_{20}H_{28}Br_2O_{13}$	Asperuloside dibromomethoxide	728-3497	S	Table, I	Briggs	JCS - (1954)	4182
$C_{20}H_{28}NO_3P$	Diphenyl dibutylamino-phosphonate	900-1060	Sol	Band freq, I	Halmann	JCS - (1953)	626
$C_{20}H_{28}N_2$	N,N'-Di-p-tolylhexa-methylenediamine	-	-	Group freq	Fuson	JACS 75 (1953)	5744
$C_{20}H_{28}N_2O$	Deacetylaspidospermine	-	-	Group freq, Struct, I	Witkop	JACS 76 (1954)	5603
$C_{20}H_{28}N_2O$	Deoxydihydroajmaline	-	S	Group freq	Anet	JCS - (1954)	1242
$C_{20}H_{28}N_2O$	Deoxydihydroisoajmalene	-	S	Group freq	Anet	JCS - (1954)	1242
$C_{20}H_{28}N_2O_4$	Carbobenzoxy tri-l-alanyl-l-alanine	-	S	Struct	Zahn	A 636 (1960)	132
$C_{20}H_{28}O$	Benzyl- β -ionol	-	-	Group freq	Oroshnik	JACS 76 (1954)	2325
$C_{20}H_{28}O$	3,7-Dimethyl-1-(2,6,6-trimethylcyclohex-2-enylidene) nona-2,6-dien-4-yn-8-ol	-	L	Spec, Band freq	Oroshnik	JACS 77 (1955)	4048
$C_{20}H_{28}O$	Neoretinene-b	2-15 μ	Sol	Spec, Ext coefficient	Robeson	JACS 77 (1955)	4120
$C_{20}H_{28}O$	Retinene ₁	700-3200	L	Spec, Group freq	Farrar	JCS - (1952)	2657
$C_{20}H_{28}O$	all-trans Vitamin A aldehyde	2-15 μ	Sol	Spec, Group freq	Robeson	JACS 77 (1955)	4120
$C_{20}H_{28}O$	all trans- α -Vitamin A aldehyde	2-15 μ	Sol	Spec, Group freq	Robeson	JACS 77 (1955)	4120
$C_{20}H_{28}O$	2-cis-Vitamin A aldehyde	2-15 μ	Sol	Spec, Group freq	Robeson	JACS 77 (1955)	4120
$C_{20}H_{28}O$	2-cis-6-cis, Vitamin A aldehyde	2-15 μ	Sol	Spec, Group freq	Robeson	JACS 77 (1955)	4120
$C_{20}H_{28}O$	6-cis-Vitamin A aldehyde	2-15 μ	Sol	Spec, Group freq	Robeson	JACS 77 (1955)	4120

$C_{20}H_{28}O$	Vitamin A ₂	700-3700	L	Spec, Group freq	Farrar	JCS	- (1952)	2657
$C_{20}H_{28}O_2$	Dehydroabietic acid	800-2000 1500-3700	Sol Sol	Spec Group freq	Barnes Cole	IEC JCS	15 (1943) - (1959)	659 2005
$C_{20}H_{28}O_2$	3-Ethoxy-19-nor- $\Delta^3,5$ - androstadien-17-one	-	Sol	Band freq	Djerassi	JACS	76 (1954)	4092
$C_{20}H_{28}O_2$	17-Methyl estradiol methyl ether	-	Sol	Group study	Djerassi	JACS	76 (1954)	4092
$C_{20}H_{28}O_2$	Δ^4 -19-Norpregnene- dione-3,20	1300-1800	Sol Sol Sol	Band freq Spec, Group freq Band freq	Miramontes Jones Djerassi	JACS JACS JACS	73 (1951) 74 (1952) 75 (1953)	3540 5648 4440
$C_{20}H_{28}O_2$	19-Nor-17 α -vinyl testo- sterone	-	Sol	Band freq	Sandoual	JACS	77 (1955)	148
$C_{20}H_{28}O_2$	$\Delta^5,17:20$ -Pregnadienol- β -one-20	-	Sol	Group freq	Cole	JACS	74 (1952)	5571
$C_{20}H_{28}O_3$	Cafestol	2-16 μ	Sol -	Spec Band freq	Djerassi Haworth	JOC JCS	18 (1953) - (1955)	1449 1983
$C_{20}H_{28}O_3$	1 β -6-endo-Dimethyl-6-exo -9 α -dihydroxy-2,3- (1'-methoxy 5 β ,6 β ,7', 8-tetrahydro-6,5'- naphthol)bicyclo[3.3.1] -nonane	3100-3750	Sol	H bond	West	JOC	25 (1960)	1976
$C_{20}H_{28}O_3$	5-Hydroxy-20-keto-3,5- seco-4-norpregn-5-en-3- oic-3,5-lactone	-	-	Band freq	Fujimoto	JACS	75 (1953)	3259
$C_{20}H_{28}O_3$	d,l-3-Keto-16,17-dihydroxy - $\Delta^4,9(11)$ -D-homoandrosta- diene	2-12 μ	Sol	Spec	Woodward	JACS	74 (1952)	4223
$C_{20}H_{28}O_3$	3-Keto- Δ^4 -etiocolenic acid	2-12 μ	Sol	Spec, Band freq	Woodward	JACS	74 (1952)	4223

$C_{20}H_{28}O_3$	6-Keto-17 α -methyltestosterone	-	-	Group freq	Eppstein	JACS	76 (1954)	3174
$C_{20}H_{28}O_3$	11-Keto-17 α -methyltestosterone	-	-	Group freq	Eppstein	JACS	76 (1954)	3174
$C_{20}H_{28}O_3$	3 β -Methoxyandrost-5-ene-16,17-dione	-	Sol	Group study	Bellamy	JCS	- (1957)	861
$C_{20}H_{28}O_3$	Methyl- Δ^4 -estren-3-one-17 β -carboxylate	-	Sol	Freq	Sandoval	JACS	77 (1955)	148
$C_{20}H_{28}O_4$	1,14-Dimethyl-2-keto-3-hydroxymethylene-6,7-dihydroxy- $\Delta^1(11)$ -dodecahydrophenanthrene acetamide	2-12 μ	Sol	Spec	Woodward	JACS	74 (1952)	4223
$C_{20}H_{28}O_4$	6-Isobutyryl-3,4,8,9-tetrahydro-5-hydroxy-2,2,8,8-tetramethylbenzo(1,2b,3,4b)dipyran	3.7-14.6 μ	-	Table, I	Howard	JCS	- (1955)	174
$C_{20}H_{28}O_5$	Columulone	2.5-15 μ	Sol	Group freq	Rigby	JACS	77 (1955)	2828
$C_{20}H_{28}O_5$	Isocolumulone	2.5-15 μ	Sol	Group freq	Rigby	JACS	77 (1955)	2828
$C_{20}H_{28}O_5$	2,4b-Dimethyl-2-acetyl-7-ethylenedioxy-1,2,3,4,4a α ,4b,5,6,7,8,10,10a β -dodecahydrophenanthrene-4 β -ol-1-one	-	S	Group freq	Lukes	JACS	75 (1953)	1707
$C_{20}H_{28}O_5$	Δ^4 -19-Norpregnene-11 β ,17 α ,21-triol-3,20-dione	-	S	Group freq	Zaffaroni	JACS	76 (1954)	6210
$C_{20}H_{28}O_8$	Glaucaarubol	-	-	Group study	Ham	JACS	76 (1954)	6066
$C_{20}H_{29}BrO_4$	Caryophyllene maleic anhydride adduct bromo- γ -lactonic acid methyl ester	-	Sol	Freq	Nickon	JACS	77 (1955)	1190

$C_2H_{29}BrO_4$		Sol	Freq	Nickon	JACS	77 (1955)	1190
$C_2H_{29}ClO_2$	Caryophyllene maleic anhydride adduct bromo- δ -lactonic acid methyl ester	-	-				
$C_2H_{29}NO_4$	4-Chloro-17 α -methyltestosterone	S	1550-1800	Meda	SA	13 (1958)	75
$C_2H_{29}N_2O_2 \cdot HCl$	Ethyl-N-(ϵ -carbethoxypentyl)-1,2,3,4-tetrahydroisoquinoline-3-carboxylate	L	Group freq	Leonard	JACS	76 (1954)	3193
$C_2H_{29}N_2O_2 \cdot HCl$	2-n-Butoxy-4-(N- β -diethyl-aminoethyl-carboxamido) quinoline hydrochloride	S	Spec	Nakanishi	BCSJ	30 (1957)	403
$C_2H_{29}O_3$	19-Hydroxy-3-oxo- Δ^4 -etienamide	S	Ident	Barber	JOC	19 (1954)	1758
C_2H_{30}	m-Di-(1-methylcyclohexyl)-benzene	-	Band freq, Ident	Ipatieff	JACS	75 (1953)	6056
C_2H_{30}	p-Di-(1-methylcyclohexyl) benzene	-	Band freq	Ipatieff	JACS	75 (1953)	6056
$C_2H_{30}N_2$	N,N'-Dicyclohexyl-2,5-dimethyl-1,4-benzquinone diimine	-	Group freq	Carson	JACS	75 (1953)	4300
$C_2H_{30}N_2O_3$	1-[β -(1-Methyl-4-phenyl-4-hydroxy-3-piperidyl)-propionyl]-piperidine	Sol	Group freq	Mc Elvain	JACS	76 (1954)	5625
$C_2H_{30}N_2O_3$	N-Cyclohexyl- α -morpholinol- γ -hydroxy- γ -phenylbutyramide	S	Band Assign, Struct	Cromwell	JACS	80 (1958)	4573
$C_2H_{30}O$	3,7-Dimethyl-1-(2,6,6-trimethylcyclohex-2-enylidene)nona-2,4,5-trien-8-ol	L	Spec, Group freq	Oroshnik	JACS	77 (1955)	4048

$C_{20}H_{30}O$	3,7-Dimethyl-1-(2,6,6-trimethylcyclohex-2-enylidene)-nona-2,4-cis,6-trien-8-ol	2-16 μ	L	Spec	Oroshnik	JACS	76 (1954)	5719
$C_{20}H_{30}O$	3,7-Dimethyl-1-(2,6,6-trimethylcyclohex-2-enylidene)-nona-2,4-trans,6-trien-8-ol	2-16 μ	L	Spec	Oroshnik	JACS	76 (1954)	5719
$C_{20}H_{30}O$	3,7-Dimethyl-1-(2,6,6-trimethylcyclohex-2-enylidene) nona-2,4-cis,8-trien-7-ol	2-16 μ	L	Spec	Oroshnik	JACS	76 (1954)	5719
$C_{20}H_{30}O$	3,7-Dimethyl-1-(2,6,6-trimethylcyclohex-2-enylidene) nona-2,4-trans,8-trien-7-ol	2-16 μ	L	Spec	Oroshnik	JACS	76 (1954)	5719
$C_{20}H_{30}O$	17-Methylene- Δ^5 -androstene- β -ol	-	Sol	Freq	Sondheimer	JACS	77 (1955)	4145
$C_{20}H_{30}O$	Neovitamin A	-	-	Spec	Robeson	JACS	69 (1947)	136
$C_{20}H_{30}O$	Totarol	700-4000	L, Sol	Spec, Struct, Group freq	Short	JCS	- (1951)	2979
$C_{20}H_{30}O$	2-cis-Vitamin A	2-15 μ	Sol	Spec, Group freq	Robeson	JACS	77 (1955)	4111
$C_{20}H_{30}O$	2,6-di-cis-Vitamin A	2-15 μ	Sol	Spec, Group freq	Robeson	JACS	77 (1955)	4111
$C_{20}H_{30}O$	6-cis-Vitamin A	2-15 μ	Sol	Spec, Group freq	Robeson	JACS	77 (1955)	4111
$C_{20}H_{30}O$	all-trans-Vitamin A	2-15 μ	Sol	Spec, Group freq	Robeson	JACS	77 (1955)	4111
$C_{20}H_{30}O$	Vitamin A ₁	700-3700 0.9-3 μ	- L Sol	Spec Spec, Group freq Spec	Robeson Farrar Holman	JACS JCS AC	69 (1947) - (1952) 28 (1956)	136 2657 1533
$C_{20}H_{30}O_2$	Abietic acid	-	S, Sol	Ident	Borisch	IANS	23 (1959)	1219

Formula	Compound Name	Wavenumber (cm ⁻¹)	Phase	Study Description	Author	Journal	Year	Page
C ₂₀ H ₃₀ O ₂	Dextro-pimaric acid	1500-3700	Sol	Group study, Group freq	Cole	JCS	(1959)	2005
C ₂₀ H ₃₀ O ₂	17 α -Hydroxy-17 β -methyl-4-androsten-3-one	2.5-3.5 μ	Sol	Group study	Kabasakalian	AC	31 (1959)	375
C ₂₀ H ₃₀ O ₂	3 β -Methoxy-5-androsten-17-one	3-13 μ	S, Sol	Spec, Band freq, Struct	Josien	JACS	73 (1951)	4445
C ₂₀ H ₃₀ O ₂	6-Methoxy-1-androsten-17-one	3-13 μ	S, Sol	Spec, Band freq, Struct	Josien	JACS	73 (1951)	4445
C ₂₀ H ₃₀ O ₂	Δ^4 -17-Methylandrostenol-17 β -one-3	-	S, Sol	Group freq	Tarpley	AFS	9 (1955)	69
C ₂₀ H ₃₀ O ₂	17 α -Methyltestosterone	1530-1800	S	Group freq	Meda	SA	13 (1958)	75
C ₂₀ H ₃₀ O ₂	17-Methylepitestosterone	-	-	Assign	Jones	JACS	70 (1948)	2024
		1580-3100	Sol	Group study, I	Jones	JACS	72 (1950)	86
		1628-1728	Sol	Ext. Coefficient, I	Jones	JACS	74 (1952)	80
		-	Sol	Group freq	Jones	JACS	74 (1952)	5648
		-	Sol	Group freq	Sondheimmer	JACS	77 (1955)	4145
C ₂₀ H ₃₀ O ₂	Δ^4 -19-Norpregnen-20-ol-3-one	-	Sol	Band freq	Meramontes	JACS	73 (1951)	3540
		-	Sol	Band freq	Djerassi	JACS	75 (1953)	4440
C ₂₀ H ₃₀ O ₂	Palustric acid	3-15 μ	S	Spec	Brunn	ACS	11 (1957)	907
C ₂₀ H ₃₀ O ₂	d-Pimaric acid	-	S, Sol	Ident	Borisevich	IANS	23 (1959)	1219
C ₂₀ H ₃₀ O ₂	l-pimaric acid	-	S, Sol	Ident	Borisevich	IANS	23 (1959)	1219
C ₂₀ H ₃₀ O ₃	Chrysanthemum mono-carboxylic acid anhydride	2-15 μ	S, Sol	Spec	Freeman	AC	27 (1955)	1268
C ₂₀ H ₃₀ O ₃	2-Hydroxy-2,6- β ,5-bis-heptamethylene-cyclohex-5-ene-1,4-dione	-	S	Group freq	Rappael	JCS	(1952)	4566
C ₂₀ H ₃₀ O ₃	17 β -Hydroxy-3 β -methoxyandrostan-5-en-16-one	-	Sol	Group freq, Group study	Bellamy	JCS	(1957)	861
C ₂₀ H ₃₀ O ₃	17 β -Hydroxy-17 α -methylandrostan-3,6-dione	-	-	Group freq	Eppstein	JACS	76 (1954)	3174

$C_{20}H_{30}O_3$	12 α -Hydroxy-13 β -methyl-12-nor-3-oxo-11 β , 14 α -abietan-15-oic lactone	-	Sol	Group freq	Seebalusky	JACS	76 (1954)	3512
$C_{20}H_{30}O_3$	6 β -Hydroxy-17 α -methyl-testosterone	-	-	Group freq	Eppstein	JACS	76 (1954)	3174
$C_{20}H_{30}O_3$	11 α -Hydroxy-17 α -methyl-	-	-	Group freq	Eppstein	JACS	76 (1954)	3174
$C_{20}H_{30}O_3$	3-Ketoetioallocholanolic acid	2-12 μ	Sol	Spec	Woodward	JACS	74 (1952)	4223
$C_{20}H_{30}O_3$	Steviol	-	Sol	Group freq, Struct	Mosettig	JOC	20 (1955)	884
$C_{20}H_{30}O_3$	Isosteviol	-	Sol	Band freq	Mosettig	JOC	20 (1955)	884
$C_{20}H_{30}O_3Si_3$	Tetramethyl-2,4-diphenyl-cyclotrisiloxane	2-16 μ	Sol	Spec	Young	JACS	70 (1948)	3758
$C_{20}H_{30}O_4$	Agathene dicarboxylic acid	1500-3700	Sol	Group freq, Group study	Cole	JCS	- (1959)	2005
$C_{20}H_{30}O_4$	Caryophyllene maleic anhydride adduct δ -lactonic acid methyl ester	-	Sol	Freq	Nickon	JACS	77 (1955)	1190
$C_{20}H_{30}O_4$	Dihexyl phthalate	-	L	Band freq, I	Kendall	APS	7 (1953)	179
$C_{20}H_{30}O_4$	D-Homoethiocholactone -seco-D13 - Δ (13)-3-ol-11-one-17-carboxylic acid	-	Sol	Band freq	Wendler	JACS	77 (1955)	3559
$C_{20}H_{30}O_6$	Bis-butylcellosolve phthalate	-	-	Band freq, I	Kendall	APS	7 (1953)	179
$C_{20}H_{30}O_6$	2,5-Dimethylquinol di-(2'-carbethoxy-2'-propyl) ether	-	-	Group freq	Aparicio	JCS	- (1952)	4666
$C_{20}H_{31}ClO$	Isostevic acid chloride	-	-	Group freq	Mosettig	JOC	20 (1955)	884
$C_{20}H_{31}N$	N-Methyldehydroabietane-1-amine	-	-	Band freq	Zeiss	JACS	75 (1953)	5935

$C_{20}H_{31}NO_2$ HCl	1-(β -Dietylaminoethyl- carboxy)-1-(1-3,1'- dimethylphenyl)- cyclopentane hydrochloro- ride	2-8 μ	S	Spec	Nakanishi	BCSJ	30 (1957)	403
$C_{20}H_{32}$	Phyllocladene	1320-3200	Sol	Struct	Bottomley	JCS	- (1955)	2624
$C_{20}H_{32}$	Isophyllocladene	1300-3200	Sol	Struct	Bottomley	JCS	- (1955)	2624
$C_{20}H_{32}Br_2O_8$	5,6,8,9,11,12,14,15- Octabromoicosanoic acid	475-775	S	Spec, Band freq	Sinclair	JACS	74 (1952)	2578
$C_{20}H_{32}NO$	1,4-Dicyclohexylimino- -2,5-dimethyl-2-hydroxy- cyclohexene-5	-	-	Group freq	Carson	JACS	75 (1953)	4300
$C_{20}H_{32}NC_2$	Hexahydroazmaline	-	S	Group freq	Anet	JCS	- (1954)	1242
$C_{20}H_{32}O_2$	Isosteval	-	Sol	Band freq	Moseittig	JOC	20 (1955)	884
$C_{20}H_{32}O$	α -Cyclohex-1-enyl- α - (1-hydroxycyclohexyl) acetylcyclohexane	-	Sol	Group freq	Brande	JCS	- (1955)	329
$C_{20}H_{32}O_2$	Dihydroabietic acid	-	S,Sol	Ident	Barisevich	IANS	23 (1959)	1219
$C_{20}H_{32}O_2$	3,7-Dimethyl-1-(2,6,6- trimethylcyclohex-1- enyl)nona-2,5-cis,7- triene-4,9-diol	2-16 μ	L	Spec	Oroshnik	JACS	76 (1954)	5719
$C_{20}H_{32}O_2$	3,7-Dimethyl-1-(2,6,6- trimethylcyclohex-1-enyl)- nona-2,5-trans,7-triene -4,9-diol	2-16 μ	L	Spec	Oroshnik	JACS	76 (1954)	5719
$C_{20}H_{32}O_2$	α -Dipiperitone	740-3413	S	Group freq	Briggs	JCS	- (1953)	3788
$C_{20}H_{32}O_2$	β -Dipiperitone	740-3436	S	Group freq	Briggs	JCS	- (1953)	3788

$C_{20}H_{32}O_2$	<i>cis</i> - $\Delta^5,8,11,14$ -Eicosatetraenoic acid	0.9-3 μ	Sol	Spec	Holman	AC	28 (1956)	1533
$C_{20}H_{32}O_2$	6,10,14,18-Eicosatetraenoic acid	-	L	Spec, Band freq	Sinclair	JACS	74 (1952)	2578
$C_{20}H_{32}O_2$	Etiolallocholic acid	-	Sol	Group freq	Jones	JACS	72 (1950)	956
$C_{20}H_{32}O_2$	D-Homoandrostanol- 3β -one-17a	-	Sol	Group freq	Cole	JACS	74 (1952)	5571
$C_{20}H_{32}O_2$	12 α -Hydroxy-13 β -methyl-12-nor-17 β ,14 α -abietan-15-oic-lactone	-	-	Group freq	Subluskey	JACS	76 (1954)	3512
$C_{20}H_{32}O_2$	3 β -Methoxy-5-androsten-17 β -ol	3-13 μ	S, Sol	Spec, Struct, Band freq	Josien	JACS	73 (1951)	4445
$C_{20}H_{32}O_2$	6-Methoxy-1-androstan-17 β -ol	3-13 μ	S, Sol	Spec, Struct, Band freq	Josien	JACS	73 (1951)	4445
$C_{20}H_{32}O_2$	17 α -Methyl- Δ^5 -androsten-3 β ,17 β -diol	650-1750	S	Spec, Ident	Behr	AC	29 (1957)	1147
$C_{20}H_{32}O_2$	9,12-Octadecadiynal ethylene glycol cyclic acetal	2-16 μ	Sol	Spec	Walborsky	JACS	73 (1951)	2590
$C_{20}H_{32}O_3$	5,20-Dihydroxy-3,5-seco-4-norallopregnan-3-oic acid 3:5 lactone	1000-1900	Sol	Spec, Group freq	Jones	JACS	81 (1959)	5242
$C_{20}H_{32}O_3$	Hydroxystevic acid	-	-	Band freq, Ident	Mosettig	JOC	20 (1955)	884
$C_{20}H_{32}O_3$	Hydroxyisostevic acid	-	S	Group freq	Mosettig	JOC	20 (1955)	884
$C_{20}H_{32}O_3$	3 β -Methoxy-16 α ,17 β -dihydroxy- Δ^5 -androsten-3-one	2.5-15 μ	S	Spec, Band freq	Hirschmann	JACS	74 (1952)	5357
$C_{20}H_{32}O_3$	Tetrahydrocafestol	-	-	Ident	Haworth	JCS	- (1955)	1983
$C_{20}H_{32}O_4$	2,5-Dihydroxy-2,6,3,5-bisheptamethylene-cyclohexane-1,4-dione	-	S	Group freq	Raphael	JCS	- (1952)	4566

$C_{20}H_{32}O^{10}S_2$	D-Galactose diethyl- mercaptal penta- acetate	8-15 μ	S	Spec	Kuhn	AC	22 (1950)	276
$C_{20}H_{32}O^{14}S_2$	D-Fructo-1,3,4,5,6- pentaacetoxy-2,2- diethylsulfonyhexane	-	S	Band freq	Bourne	JCS	- (1954)	4009
$C_{20}H_{33}N_3O_2$	Hexahydroajmaline oxime	-	S	Group freq	Anet	JCS	- (1954)	1242
$C_{20}H_{34}$	Digeranyl	700-1700	L	Spec, Struct, Group freq	Bernard	JCS	- (1950)	915
$C_{20}H_{34}$	Isodigeranyl	700-1700	L	Spec, Struct, Group freq	Bernard	JCS	- (1950)	915
$C_{20}H_{34}$	Dihydromyrcenyl dihydro- -myrcene	700-1700	L	Spec, Ext. Coefficient, Iso	Bernard	JCS	- (1950)	3045
$C_{20}H_{34}$	2-Phenyltetradecane	2-15.5 μ	L	Spec, Struct	Lenneman	JOC	19 (1954)	463
$C_{20}H_{34}N_2O$	Deoxyoctahydro- ajmaline	-	S	Group freq	Anet	JCS	- (1954)	1242
$C_{20}H_{34}O$	2,6-Di-t-amyl-4-t- butyl phenol	3	Sol	Spec, Freq	Coggeshall	JACS	69 (1947)	1620
$C_{20}H_{34}O$	Digeranyl ether	-	-	Group study Spec, Group freq	Naylor Bernard	JCS JCS	- (1959) - (1950)	2724 915
$C_{20}H_{34}O_2$	Cativic acid	-	-	Struct	Grant	JACS	76 (1954)	5001
$C_{20}H_{34}O_4$	1,1,12,12-Tetraacetyl- dodecane	2.5-6.5 μ	Sol	Freq, Assign	Martin	JACS	81 (1959)	130
$C_{20}H_{34}O_8$	(Tri-n-butyl citrate) acetate	2-15 μ	L	Spec	Kendall	APS	7 (1953)	179
$C_{20}H_{36}OSi$	Trimethylsilylundecyl phenyl ether	-	-	Inductive effect	Josien	CPR	249 (1959)	826
$C_{20}H_{36}O_2$	Ethyl cis,9-trans,12- linoleate	0.9-3 μ	Sol	Spec	Holman	AC	28 (1956)	1533

$C_{20}H_{40}O_2$	n-Eicosanoic acid	700-1375 700-3500 2-15 μ 720	S S, Sol S S	Ident Spec, Band freq Spec, Qual, Anal Band freq	Cole Sinclair Meiklejah Chapman	JOSA JACS AC JCS	42 (1952) 74 (1952) 29 (1957) - (1957)	348 2570 329 4489
$C_{20}H_{40}O_2$	Ethyl stearate	1-12 μ 710-730	Sol S	Spec, Ext. Coefficient Band freq	O'Connor Chapman	JAOC JCS	28 (1951) - (1957)	154 4489
$C_{20}H_{40}O_2$	11-Hydroxy-10-eicosano- none	0.9-3 μ	Sol	Spec	Holman	AC	28 (1956)	1533
$C_{20}H_{40}O_3$	Ethylene glycol mono- stearate	2-15 μ	S	Spec	Kendall	APS	7 (1953)	179
$C_{20}H_{41}NO$	cis-2-Aminocyclo- eicosanol	-	Sol	Freq, Assign	Sicher	CCCC	24 (1959)	950
$C_{20}H_{41}NO$	trans-2-Aminocyclo- eicosanol	-	Sol	Freq, Assign	Sicher	CCCC	24 (1959)	950
$C_{20}H_{41}NO_3$	Stearic acid acetamide	2-12 μ	S, Sol	Spec, Assign	O'Connor	JACS	77 (1955)	892
$C_{20}H_{42}$	Eicosane	- 3-15 μ 700-3000	- S Sol	Anal Temp. Effect Group study, Ext. Coefficient	Rosenbaum Walsh Jones	JCP JCP SA	9 (1941) 18 (1950) 9 (1957)	295 522 235
$C_{20}H_{43}NO_2$	Dodecylammonium caprylate	750-1150 700-1500 1600-1750	S S Sol	Struct, Band freq Freq, Assign Assign	Snyder Snyder Kitahara	JCP JMS BCSJ	27 (1957) 4 (1960) 31 (1958)	969 411 653
$C_{20}H_{44}N_2 \cdot 2HCl$	Necrosamine dihydro- chloride	-	-	Freq, Struct	Ikawa	JACS	75 (1953)	3439
$C_{20}H_{44}Si$	n-Butyl-n-hexadecylsilane	2-16 μ	Sol	Group freq	Kniseley	SA	15 (1959)	651
$C_{20}H_{44}Si$	Di-n-decylsilane	2-16 μ	Sol	Group freq	Kniseley	SA	15 (1959)	651
$C_{20}H_{50}O_{15}Si_5$	Decaethoxy cyclopenta- silonane	600-5500	L	Spec	Okawara	BCSJ	31 (1958)	154

C₂₁ COMPOUNDS

C ₂₁ H ₁₀ F ₃ O ₄	1,5-Pentanediol bis-pentadecafluorocaprylate	-	L	Group freq	Rappaport	JACS 75 (1953)	2695
C ₂₁ H ₁₂ Cl ₄ O ₃	2,6-Bis-(3,4-dichlorobenzoyl)-p-cresol	-	S, Sol	Group freq	Newman	JOC 19 (1954)	996
C ₂₁ H ₁₂ O ₂	2-Hydroxytrypticoic lactone	2-12 μ	Sol	Spec, Struc	Bartlett	JACS 76 (1954)	1088
C ₂₁ H ₁₂ O ₃	3-Benzoyl-1,10-phenanthraquinone	1600-1800	S, Sol	Group freq	Josien	JCP 21 (1955)	331
C ₂₁ H ₁₂ O ₆	Trisalicylide	1700-1800	S, Sol	Group freq	Short	JCS - (1952)	206
C ₂₁ H ₁₃ N	1:2,8:9-Dibenzacridine	670-3150	S	Spec, Band freq	Orr	JCS - (1950)	218
C ₂₁ H ₁₃ N	3:4,6:7-Dibenzacridine	670-3150	S	Spec, Band freq	Orr	JCS - (1950)	218
C ₂₁ H ₁₃ NO	Triptycyl isocyanate	-	-	Band freq	Bartlett	JACS 76 (1954)	1088
C ₂₁ H ₁₃ NO ₃	1-Benzamidoanthraquinone	1637-1677	-	Group freq	Flett	JCS - (1948)	1441
C ₂₁ H ₁₃ NO ₄	1-Anilinoanthraquinone-2-carboxylic acid	700-4000	S, L	Group freq	Flett	JCS - (1951)	962
C ₂₁ H ₁₃ N ₃ O	Triptazide	-	-	Group freq	Bartlett	JACS 76 (1954)	1088
C ₂₁ H ₁₄	1:2,5:6-Dibenzfluorene	670-3150 660-2000	S Sol	Spec, Band freq Spec	Orr Cannon	JCS - (1950) SA 4 (1951)	218 373
C ₂₁ H ₁₄	1:2,7:8-Dibenzfluorene	670-3150	S	Spec, Band freq	Orr	JCS - (1950)	218
C ₂₁ H ₁₄ N ₂	Di- α -naphthylcarbodiimide	2300-2000	Sol	Vibrations	Meakins	JCS - (1957)	993
C ₂₁ H ₁₄ N ₂	1-Phenyl- ψ -indolo-(3':2'-3:4)quinoline	-	-	Struc	Mann	JCS - (1951)	1898
C ₂₁ H ₁₄ N ₂ ·HCl	1-Phenyl- ψ -indolo-(3':2'-3:4)quinoline hydrochloride	-	-	Struc	Mann	JCS - (1951)	1898

Formula	Compound Name	Group	Group freq	Adams	JACS	Year	Page
$C_{21}H_{14}N_2O_4^S$	2-(2'-Pyridono)-1,4-naphthoquinone-4-benzene-sulphonimide	-	-	Adams	JACS	76 (1954)	702
$C_{21}H_{14}O$	1-Formyl triptycene	-	Band freq	Bartlett	JACS	76 (1954)	1088
$C_{21}H_{14}O_3$	9-Benzoyloxy-10-hydroxyphenanthrene	S	660-5000 Group freq, Ident	Moore	JCS	- (1953)	238
$C_{21}H_{14}O_3$	9,10-Cyclo dioxy-phenanthryl- - benzylidene alcohol	-	Struc	Moore	JCS	- (1953)	238
$C_{21}H_{14}O_3$	2,2'-Dinaphthyl-carbonate	-	Ident	Tsou	JACS	76 (1954)	6108
$C_{21}H_{14}O_3$	2-Hydroxytripticoic acid	Sol	2-12 μ Spec, Struc	Bartlett	JACS	76 (1954)	1088
$C_{21}H_{15}BrClNO_4$	erythro-2-Bromo-2-(4-chlorophenyl)-1-phenylethanol-p-nitrobenzoate	-	Group freq	House	JACS	77 (1955)	3070
$C_{21}H_{15}Cl_3N_6$	N,N',N''-Tri(m-chloro phenyl)melamine	S	2-16 μ Spec, Struc, Assign	Padgett	JACS	80 (1958)	803
$C_{21}H_{15}Cl_3N_6$	N,N',N''-Tri(o-chloro phenyl)melamine	S	2-16 μ Spec, Struc, Assign	Padgett	JACS	80 (1958)	803
$C_{21}H_{15}NO_4^S$	p-Phthalimidomethyl-phenyl phenyl sulfone	S	Substitution effect	Momose	CPBT	6 (1958)	412
$C_{21}H_{15}N_3$	2,4,6-Triphenyl-1,3,5-triazine	S	2-16 μ Spec	Hoss	JACS	72 (1950)	3302
$C_{21}H_{15}N_3O_3$	2,4,6-Triphenoxy-1,3,5-triazine	S	2-16 μ Spec, Struc, Correlation	Padgett	JACS	80 (1958)	803
$C_{21}H_{15}N_3O_4^S$	3-(p-Benzoylsulfonamido-phenyl)-5-phenyl-1,2,4-oxadiazole	S	Group study, Struc	Bergmann	JOC	18 (1953)	64
$C_{21}H_{15}N_5O_{11}$	Di-DNP-DL-tyrosine	S	625-5000 Spec, Ident	Friedberg	CJC	37 (1959)	1469

$C_{21}H_{15}N_5O_{11}$	Di-DNP-L-tyrosine	625-5000	S	Spec, Ident	Friedberg	CJC	37 (1959)	1469
$C_{21}H_{16}$	9-Benzylanthracene	650-2040	S	Spec	Cannon	SA	4 (1951)	373
$C_{21}H_{16}$	5:6-Cyclopenteno-1:2-benzanthracene	670-3150	S	Spec, Band freq	Orr	JCS	- (1950)	218
$C_{21}H_{16}Cl_2O_2$	3,7-Di-(o-chlorobenzylidene)-1,2-cycloheptanedione	-	S	Group freq	Leonard	JACS	75 (1953)	4989
$C_{21}H_{16}Cl_2O_2$	3,7-Di-(o-chlorobenzyl) tropolone	-	Sol	Group freq	Leonard	JACS	75 (1953)	4989
$C_{21}H_{16}N_2O_4S$	2-Phenyl- α -(2-benzylidene-4,5-diketoxiazolidyl)-2-thiazolidine acetic acid β lactam	2-8 μ	Sol	Spec, Struc	Sheehan	JACS	73 (1951)	4756
$C_{21}H_{16}N_2O_6$	3,7-Di-(p-nitrobenzylidene)-1,2-cycloheptanedione	-	S	Group freq	Leonard	JACS	75 (1953)	4989
$C_{21}H_{16}N_2O_6$	3,7-Di-(p-nitrobenzyl) tropolone	-	S	Group freq	Leonard	JACS	75 (1953)	4989
$C_{21}H_{16}N_4O$	N-Phenyl-2-phenyl-6-phenoxy-4-amino-5-triazine	2-15 μ	Sol	Assign	Reinschuessel	JACS	82 (1960)	3756
$C_{21}H_{16}O$	1-Benzoyl-2,2-diphenylethylene	-	Sol	Freq	Bergmann	JCS	- (1952)	2522
$C_{21}H_{16}O$	β -p-Diphenylacrylophenone	650-4000	S, Sol	Group freq, I	Cromwell	JACS	75 (1953)	6252
$C_{21}H_{16}O$	2,3-Diphenylindone	-	-	Spec	Bergmann	BSCF	634 (1959)	1959
$C_{21}H_{16}O$	trans-4'-Phenylchalcone	-	S	Group freq	Cromwell	JOC	17 (1952)	414
$C_{21}H_{16}O_2$	2-Acetoxy-4-methylbenzo(c)phenanthrene	-	Sol	Band freq	Djerassi	JACS	76 (1954)	1741

Compound	Wavenumber	Assignment	Group	Group freq	House	JACS	Year	Page
C ₂₁ H ₁₆ O ₂	-	α,β-Di phenylacrylophenone oxide	-	Group freq	House	JACS	76 (1954)	1235
C ₂₁ H ₁₆ O ₂	-	β,β-Di phenylacrylophenone oxide	-	Group freq	House	JACS	76 (1954)	1235
C ₂₁ H ₁₆ O ₂	-	1-Hydroxy-1'-methoxy-2,2'-binaphthyl	-	Ident	Edwards	JACS	76 (1954)	6141
C ₂₁ H ₁₆ O ₃	-	2,6-Dibenzoyl-p-cresol	-	Group freq, Band freq	Newman Newman	JOC	19 (1954)	992
C ₂₁ H ₁₇ N	2-15 μ	Diphenyl ketene-p-tolylimine	Sol	Group freq	Stevens	JACS	75 (1953)	657
C ₂₁ H ₁₇ N	2-11 μ	1-Methyl-2,3-diphenyl-indole	Sol	Spec	Witkop	JACS	76 (1954)	4398
C ₂₁ H ₁₇ NO	2-11 μ	2,2-Diphenyl-1-methyl-4-indoxyl	Sol	Spec	Witkop	JACS	73 (1951)	5664
C ₂₁ H ₁₇ NO	2-11 μ	3,3-Diphenyl-1-methyl-4-oxindole	Sol	Spec	Witkop	JACS	73 (1951)	5664
C ₂₁ H ₁₈	3-15 μ	Cycloheptacosane-1,3,8,10,15,17-hexayne	S	Spec	WoIovsky	JACS	81 (1959)	4600
C ₂₁ H ₁₈	670-3150	2-Isopropyl-3:4-benzphenanthrene	S	Spec, Band freq	Orr	JCS	- (1950)	218
C ₂₁ H ₁₈	670-3150	5-n-Propyl-1:2-benzanthracene	S	Spec, Band freq	Orr	JCS	- (1950)	218
C ₂₁ H ₁₈	650-2010	6,9,10-Trimethyl-1,2-benzanthracene	S	Spec	Cannon	SA	4 (1951)	373
C ₂₁ H ₁₈	670-3150	1,1,2-Triphenyl-1-propene	S	Spec, Band freq	Orr	JCS	- (1950)	218
C ₂₁ H ₁₈	2-16 μ	1,1,2-Triphenyl-1-propene	Sol	Spec	Curtin	JACS	74 (1952)	5381
C ₂₁ H ₁₈	3-14 μ	1,2,3-Triphenylcyclopropane	L	Spec	Bridson	JCS	- (1951)	2999

$C_{21}H_{18}N_2O_2$	4-Acetoxy-7-benzylidene-5-methyl-6-phenyl-7H-1,2-diazepine	3.20-7.15 μ	-	I	Moore	JACS	77 (1955)	3417
$C_{21}H_{18}N_2O_3$	2-Methoxy-p-phenylene-dibenzamide	-	-	Ident	Adams	JACS	74 (1952)	5872
$C_{21}H_{18}N_3O_{10}P$	Tri-p-nitrobenzyl-phosphate	-	-	Group freq Group freq	Bellamy Bell	JCS JACS	- (1952) 76 (1954)	1701 5185
$C_{21}H_{18}N_4O_4$	1,3-Diphenyl-2-propanone-2,4-dinitrophenyl-hydrazone	2-15 μ	S	Band spec, Ident	Jones	AC	28 (1956)	191
$C_{21}H_{18}N_4O_4$	α -Methyldeoxybenzoin 2,4-dinitrophenyl-hydrazone	-	-	Ident	House	JACS	76 (1954)	1235
$C_{21}H_{18}N_6$	N,N',N''-Triphenylmel-amine	2-16.4 μ	S	Spec, Struct, Assign	Padgett	JACS	80 (1958)	803
$C_{21}H_{18}O$	β -p-Diphenylpropio-phenone	650-4000	S, Sol	Group freq, I	Cromwell	JACS	75 (1953)	6252
$C_{21}H_{18}O$	cis-1,2,3-Triphenyl-2-propen-1-ol	-	-	Group freq, Struc	Lutz	JACS	77 (1955)	366
$C_{21}H_{18}O$	trans-1,2,3-Triphenyl-2-propen-1-ol	-	-	Group freq, Struc	Lutz	JACS	77 (1955)	366
$C_{21}H_{18}O_2$	1-Acetoxy-4-methyl-5,6-dihydrobenzo(c)-phenanthrene	-	Sol	Group freq	Djerassi	JACS	76 (1954)	1741
$C_{21}H_{18}O_2$	2-Acetoxy-4-methyl-5,6-dihydrobenzo(c)-phenanthrene	-	Sol	Band freq	Djerassi	JACS	76 (1954)	1741
$C_{21}H_{18}O_2$	3,7-Dibenzylidene-1,2-cycloheptanedione	650-4000	Sol	Spec, Group freq	Leonard	JACS	75 (1953)	2143
		-	S	Group freq	Leonard	JACS	75 (1953)	2714
		-	Sol	Group freq	Leonard	JACS	75 (1953)	4989
$C_{21}H_{18}O_2$	Dibenzyl tropolone	620-4000	Sol	Spec	Leonard	JACS	75 (1953)	2143
		-	Sol	Group freq	Leonard	JACS	75 (1953)	4989

$C_{21}H_{18}O_2$	Methyl o-benzhydrylbenzoate	3 μ	Sol	Spec	Marvel	JACS	63 (1941)	2221
$C_{21}H_{18}O_2$	Methyl p-benzhydrylbenzoate	3 μ	Sol	Spec	Marvel	JACS	63 (1941)	2221
$C_{21}H_{18}O_2$	Methyl triphenylacetate	-	-	Ident	Brook	JACS	75 (1953)	4759
		-	-	Ident	Brook	JACS	76 (1954)	77
		-	-	Reference	Brook	JACS	77 (1955)	2322
$C_{21}H_{18}O_2S$	9-(9-Benzylfluorenyl)methyl sulfone	1100-1400	Sol	Spec, Freq	Bavin	SA	16 (1960)	1312
$C_{21}H_{18}O_2S$	9-(9-Methylfluorenyl)benzyl sulfone	1100-1400	Sol	Spec, Freq	Bavin	SA	16 (1960)	1312
$C_{21}H_{18}O_2S$	9-(9-Methylfluorenyl)-p-tolyl sulfone	1100-1400	Sol	Spec, Freq	Bavin	SA	16 (1960)	1312
$C_{21}H_{18}O_5$	6-Methyl-2-oxo-3,4,7,8-dibenzol[3.2.1]bicyclooctadiene-1,6-dicarboxylic-2,6-cis acid dimethyl ester	-	-	Ident	Vaughan	JACS	76 (1954)	4130
$C_{21}H_{18}O_7$	2',3,4-Triacetoxymethylacetophenone	1550-4000	S	Group freq	Hergert	JACS	75 (1953)	1622
$C_{21}H_{19}Cl$	3-Chloro-1,1,1-triphenylpropane	-	Sol	Group freq, I	Pinchas	JCS	- (1954)	863
$C_{21}H_{19}NO_3$	α -Carbethoxy- β -(1-isopropyl)-propionophenone	-	-	Group study	Boekeheide	JACS	75 (1953)	3679
$C_{21}H_{19}N_2O_5S$	5-Benzenesulfonamidetetrahydrobenzo[e]pyrido[a]benzimidazole	-	S, Sol	Group freq	Adams	JACS	76 (1954)	702
$C_{21}H_{19}N_2O_5S_2$	2(3)-Imino-3,5-diphenyl-4-aminothiazoline benzenesulfonate	650-4000	S	Spec	Taylor	JACS	76 (1954)	1866

$C_{21}H_{19}N_3O_4S$	2-Phenyl- α -(N- α -toluyl-N-oxamyl)-2-thiazolidineacetic acid- β -lactam	2-8 μ	Sol	Spec, Band freq	Sheehan	JACS	73 (1951)	4756
$C_{21}H_{20}$	1,1,1-Triphenylpropane	2-16 μ	Sol	Spec, Ident	Curtin	JACS	74 (1952)	5381
$C_{21}H_{20}$	1,1,2-Triphenylpropane	2-16 μ	Sol	Spec, Ident	Curtin	JACS	74 (1952)	5381
$C_{21}H_{20}Br_2O_2$	cis-3,7-Dibromo-3,7-dibenzyl-1,2-cycloheptanedione	1630-1780	S	Spec, Band freq	Leonard	JACS	75 (1953)	2143
$C_{21}H_{20}Br_2O_2$	trans-3,7-Dibromo-3,7-dibenzyl-1,2-cycloheptanedione	1630-1780	S	Spec, Band freq	Leonard	JACS	75 (1953)	2143
$C_{21}H_{20}N_2O$	1-(2,6-Dimethylbenzyl)-7-methoxy-9H-pyrid[3,4-b]indole	-	S	Ident	Huebner	JACS	77 (1955)	472
$C_{21}H_{20}N_2O_3$	Alstonine	1490-3670	Sol	Spec, Struc, Band freq	Elderfield	JOC	16 (1951)	506
$C_{21}H_{20}N_4O_2$	1,3-Di-p-methoxyphenyl-5-phenylformazan	680-1600	S	Spec, Freq, Assign	Le Fevre	AJC	9 (1956)	151
$C_{21}H_{20}N_4O_6$	4-Carbethoxy-3-phenylcyclohex-2-en-1-one-2,4-dinitrophenylhydrazine	-	Sol	Group freq	Walker	JACS	77 (1955)	3664
$C_{21}H_{20}O$	2,7-Dibenzylidene-cycloheptanone	-	S	Group freq	Leonard	JACS	75 (1953)	2714
$C_{21}H_{20}O$	d1-2,6-Dibenzylidene-3-methylcyclohexanone	-	-	Ident	Leonard	JACS	77 (1955)	1852
$C_{21}H_{20}O$	2,8-Diphenyl-3,7-methano-9-oxocyclooctene	2-15 μ	S, Sol	Group freq	Eisenbraun	JACS	77 (1955)	3383
$C_{21}H_{20}O$	Mesityl 1-methyl-2-naphthyl ketone	-	-	Grignard react. prod	Allen	JOC	20 (1955)	306
$C_{21}H_{20}O$	Mesityl 1-methyl-2-naphthyl ketone	-	-	Grignard react. prod	Fuson	JOC	16 (1951)	643

Formula	Compound Name	State	Grignard react. prod	Fusion	JOC	Year	Page
C ₂₁ H ₂₀ O ₂	Mesityl 1-methoxy-2-naphthyl ketone	-	-	Fuson	JOC	16 (1951)	643
C ₂₁ H ₂₀ O ₂	Mesityl 2-methoxy-1-naphthyl ketone	-	Group freq	Fuson	JACS	77 (1955)	3781
C ₂₁ H ₂₀ O ₂	Mesityl 4-methoxy-1-naphthyl ketone	-	Group freq	Fuson	JACS	77 (1955)	3781
C ₂₁ H ₂₀ O ₆	1,7-Bis(4-hydroxy-3-methoxyphenyl)-1,6-heptadiene-3,5-dione	S	Group freq, Struc, H bond	Bellaury	JCS	- (1952)	4653
C ₂₁ H ₂₀ O ₆	1-(3',4'-Dime thoxyphenyl)-2-carboxy-6,7-dime thoxy-naphthalene	Sol	Group freq	Walker	JACS	75 (1953)	3387
C ₂₁ H ₂₀ O ₆	1,5,6-Trimethoxy-2,2'-dime thylpyrano-(5',6'-2:3, or 4:3) xanthone	Sol	Group study	King	JCS	- (1953)	3932
C ₂₁ H ₂₀ O ₇	α,α-Di-(3,4-dime thoxy-phenyl)-itaconic anhydride	Sol	Freq	Walker	JACS	75 (1953)	3387
C ₂₁ H ₂₀ O ₈	3-Carboxy-4-(3',4',5'-trime thoxyphenyl)-6,7-methylenedioxy-1-tetralone	Sol	Band & Group freq	Walker	JACS	75 (1953)	3390
C ₂₁ H ₂₀ O ₈	α-Carboxy-β-(3,4,5-trime thoxytyryl)-tropolone acetate	S	Ident, Band & Group	Tarbell	JACS	76 (1954)	2470
C ₂₁ H ₂₀ O ₁₁	Luteolin-7-glucoside	L	Freq	Inglett	JOC	23 (1958)	93
C ₂₁ H ₂₀ O ₁₁	Quercitrin	L	Freq	Inglett	JOC	23 (1958)	93
C ₂₁ H ₂₁ BrN ₄ O ₈	2,4-Dinitrophenylhydrazone-5-bromo-7,8-dime thoxy-2-tetralone-1-acetic acid methyl ester	-	Band freq, Struc	Stork	JACS	73 (1951)	4743

$C_{21}H_{21}N_2O_2$	400-4000	-	Freq	Gagnon	CJC	37 (1959)	110
N,N' -Bis(4-benzyl-5-pyrazolono)-guanidine	870	Sol	Characteristic band	Whiffen	TFS	41 (1945)	200
Tri-ortho-tolylphosphite	670-1800	S	Spec, Freq	Werner	AJC	8 (1955)	355
Tricresylborate	2-15 μ 2-15 μ	L L	Spec Spec	Housdroff Kendall	APS APS	5 (1950) 7 (1953)	8 179
Tri-m-tolylphosphate	670-1630	L	Spec, Group freq Group freq	Bellamy Bell	JCS JACS	- (1952) 76 (1954)	475 5185
Tri-o-tolylphosphate	670-1610	L	Spec, Group freq Group freq	Bellamy Bell	JCS JACS	- (1952) 76 (1954)	475 5185
Tri-p-tolylphosphate	10.35 μ	-	Anal	Recktenwald	AC	31 (1959)	1742
Dibenzyl benzylamino-phosphonate	670-1610	L	Spec, Group freq Group freq	Bellamy Bell	JCS JACS	- (1952) 76 (1954)	475 5185
Dibenzyl N-methyl-anilinophosphonate	-	-	Group freq Group freq	Bellamy Bell	JCS JACS	- (1952) 76 (1954)	1701 5185
Neostrychnine	1570-1730	S	Spec, Group & Band freq	Leonard	JACS	76 (1954)	2781
Neostrychnine hydrochloride	1580-1730	S	Spec, Freq	Leonard	JACS	76 (1954)	2781
Neostrychnine perchlorate	1580-1730	S	Spec, Freq	Leonard	JACS	76 (1954)	2781
Strychnine	-	Sol	Group freq	Marion	JACS	73 (1951)	305
2-Acetyl-5-carbethoxy-2,6-dimethyl-4-(4'-quinoliny)-1,4-dihydropyridine	-	S	Band & Group freq	Leonard	JACS	76 (1954)	2781
	2-8 μ	-	Ident Spec	Woodward Nakanishi	JACS BCSJ	76 (1954) 30 (1957)	4749 403
	-	S	Band freq	Berson	JACS	77 (1955)	444

$C_{21}H_{22}N_2O_3$	N-cyclohexyl-2-benzoyl-3-o-nitrophenyl-azacyclopropane	700-4000	Sol	Spec, Freq	Adelfang	JACS	82 (1960)	4241
$C_{21}H_{22}N_2O_3$	Serpentine	-	-	Ident	Djerassi	JACS	76 (1954)	4463
$C_{21}H_{22}N_2O_8$	Nitrocolchicine	680-1700	S	Spec, Band freq	Nicholls	JACS	75 (1953)	1104
$C_{21}H_{22}N_4O_4$	9-Keto-4a-methyl-1,2,3,4,4a,9,10,10a-Octahydrophenanthrene,2,4-dinitrophenylhydrazone	-	-	Ident	Barnes	JACS	75 (1953)	303
$C_{21}H_{22}O$	2,6-Diallyl-4-(γ -phenylallyl)-phenol	-	-	Band freq	Marvell	JACS	76 (1954)	6165
$C_{21}H_{22}O$	2,8-Diphenyl-3,7-methano-9-oxocyclooctane	2-15 μ	Sol	Group study	Allen	JOC	20 (1955)	306
$C_{21}H_{22}O$	Mesityl 1-methyl-3,4-dihydro-2-naphthyl ketone	-	-	Group freq	Fuson	JOC	17 (1952)	881
$C_{21}H_{22}OSi$	Triphenylsilylethyl methyl ether	-	-	Inductive effect	Josien	CPR	249 (1959)	826
$C_{21}H_{22}OSi$	Triphenylsilylmethyl ethyl ether	-	-	Inductive effect	Josien	CPR	249 (1959)	826
$C_{21}H_{22}O_2$	1-Benzoyl-4-t-butyl-2-tetralone	-	-	Group freq	Fuson	JACS	77 (1955)	3781
$C_{21}H_{22}O_2$	3,7-Dibenzyl-1,2-cycloheptanedione	-	-	Group freq	Leonard	JACS	75 (1953)	2143
$C_{21}H_{22}O_2$	2-Hydroxy-4-t-butyl-3,4-dihydro-1-naphthyl phenyl ketone	-	-	Group freq	Fuson	JACS	77 (1955)	3781
$C_{21}H_{22}O_3Si$	Tri-p-anisylsilane	2-16 μ	Sol	Freq	Kniseley	SA	15 (1959)	651

Chemical Formula	Compound Name	Sol	Band freq	Walker	JACS	75 (1953)	3393
$C_{21}H_{22}O_6$	1-Hydroxy-3-carboxy-4-(3',4'-dimethoxyphenyl)-6,7-dimethoxy tetralin lactone	-	-	Walker	JACS	75 (1953)	3393
$C_{21}H_{22}O_7$	3-Carboxy-4-(3',4'-dimethoxyphenyl)-6,7-dimethoxy-1-tetralone	Sol	Group freq	Walker	JACS	75 (1953)	3387
$C_{21}H_{22}O_8$	α -(3,4,5-Trimethoxybenzyl)- γ -(3',4'-methylenedioxyphenyl)- γ -oxobutyric acid	-	Reference	Drake	JACS	77 (1955)	1204
$C_{21}H_{22}Si$	Tribenzylsilane	Sol	Freq	Kniseley	SA	15 (1959)	651
$C_{21}H_{23}NO$	N-cyclohexyl-2-benzoyl-3-phenyl-1-azacyclopropane	Sol	Spec, Freq	Adelfrang	JACS	82 (1960)	4241
$C_{21}H_{23}NO$	1-Cyclohexyl-2-(p-phenylbenzoyl) ethylenimine	S	Group freq	Cromwell	JOC	17 (1952)	414
$C_{21}H_{23}NO$	cis-1-cyclohexyl-2-phenyl-3-benzoyl-ethylenimine	S, Sol	Group freq, I	Cromwell	JACS	75 (1953)	6252
$C_{21}H_{23}NO$	trans-cyclohexyl-2-phenyl-3-benzoyl-ethylenimine	S	Spec, Group freq	Cromwell	JACS	73 (1951)	1044
$C_{21}H_{23}NO$	1,3-Diphenyl-3-cyclohexylamino-2-propen-1-one	S	Spec, Group freq	Cromwell	JACS	73 (1951)	1044
$C_{21}H_{23}NO$	β -Homochelidonine	S	Table	Cromwell	JACS	71 (1949)	3337
$C_{21}H_{23}NO_5$	Cryptocavine	Sol	Group freq	Marion	JACS	73 (1951)	305
$C_{21}H_{23}NO_5$	Cryptoptine	Sol	Group freq	Marion	JACS	73 (1951)	305
$C_{21}H_{23}NO_5$	03,06-Diacetylmorphine	-	Group freq	Marion	JACS	73 (1951)	305
$C_{21}H_{23}NO_5$		-	Group freq	Leonard	JACS	76 (1954)	630
$C_{21}H_{23}NO_5$		-	Band study	Walsh	JOC	19 (1954)	1409

C ₂₁ H ₂₄ N ₂ O ₆	Aminocolchicine	680-1700	S	Spec, Band freq	Nicholls	JACS	75 (1953)	1104
C ₂₁ H ₂₄ N ₃ B	Tri(methylphenylamino) boron	2-15 μ	L	Freq, Assign	Aubrey	JCS	- (1960)	5239
C ₂₁ H ₂₄ N ₃ B ₃	B-Trimethyl-N-triphenylborazole	-	Sol	Struc	Watanabe	SA	16 (1960)	78
C ₂₁ H ₂₄ O	2,2-Diphenyl-4,8-dimethyl-3-oxabicyclo[3.3.0]octane	-	Sol	Group absorption	Mc Elvane	JACS	77 (1955)	1599
C ₂₁ H ₂₄ O	2-Phenylcyclooctyl phenyl ketone	-	-	Group freq	Cope	JACS	75 (1953)	3208
C ₂₁ H ₂₄ O	α-n-Propylbenzalacetone mesitylene	-	-	Group freq	Fuson	JOC	18 (1953)	1263
C ₂₁ H ₂₄ O ₂	1,3-Dimesityl-2-propen-2-ol-1-one	-	S	Band freq, I	Fuson	JACS	75 (1953)	5952
C ₂₁ H ₂₄ O ₃ Si ₃	2,4,6-Trimethyl-triphenylcyclo-trisiloxane	2-16 μ	Sol	Spec	Young	JACS	70 (1948)	3758
C ₂₁ H ₂₄ O ₄	Galcatin	700-5000	L	Group freq	Briggs	AC	29 (1957)	904
C ₂₁ H ₂₄ O ₆	1-(3',4'-Dime thoxyphenyl)-6,7-dimethoxy-2-carboxy tetralin	-	-	Band study, Freq	Walker	JACS	75 (1953)	3387
C ₂₁ H ₂₄ O ₇	Gibberllic acid acetate	-	S, Sol	Group freq	Cross	JCS	- (1954)	4670
C ₂₁ H ₂₄ Si ₂	Diphenyl-p-trimethylsilylphenylsilane	2-16 μ	Sol	Freq	Kniseley	SA	15 (1959)	651
C ₂₁ H ₂₅ FO	Duryl 2-fluoro-4-t-butylphenyl ketone	-	-	Group absorption	Fuson	JACS	76 (1954)	5119
C ₂₁ H ₂₅ N ₂ O ₄	12-(2'-Cyanoethyl)-1,2,3,4,9,10,11,12-oc tahydro-4,9-diket ophenanthrene 4,9-bi se thylene glycol ketal	-	-	Group study	Ginsberg	JCS	- (1953)	1524

$C_{21}H_{25}NO_4$	d-Glaucine	-	S	Band freq	Wildman	JACS	77 (1955)	1248
$C_{21}H_{25}NO_4 \cdot HCl$	1-Tetrahydropalmatin hydrochloride	-	S	Band freq	Wildman	JACS	77 (1955)	1248
$C_{21}H_{25}NO_5$	1-N-Acetylcolchinol methyl ether	2-16 μ	Sol	Spec, Ident Iso	Rapoport Rapoport	JACS	73 (1951)	1414
$C_{21}H_{25}NO_5$	N-Acetylisocolchinol methyl ether	-	Sol	Compar with 7-amino n-compd.	Rapoport	JACS	77 (1955)	670
$C_{21}H_{26}$	p,p'-Hexamethylene-1,3-diphenylpropane	3-12 μ	Sol	Spec	Cram	JACS	73 (1951)	5691
$C_{21}H_{26}BrNO$	3-Oxa-4,4-diphenylquinolizidine methbromide	2-8 μ	S	Spec	Nakanishi	BGSJ	30 (1957)	403
$C_{21}H_{26}N_2O_2$	Demethylaspidospermine	6.12-10.75 μ	Sol	Freq, I, Struct	Witkop	JACS	76 (1954)	5603
$C_{21}H_{26}N_2O_2$	N-Methylidihydrogelsemine	-	-	Ident, Struc	Witkop	JACS	75 (1953)	2572
$C_{21}H_{26}N_2O_2$	Spermostrychnine	-	-	Freq	Anet	JCS	- (1955)	2253
$C_{21}H_{26}N_2O_3$	N-Benzyl- α -morpholino-hydroxy- γ -phenylbutyramide	1500-3500	S	Assign, Struct	Cromwell	JACS	80 (1958)	4573
$C_{21}H_{26}N_2O_3$	α -Yohimbine	1490-3600	Sol	Spec	Elderfield	JOC	16 (1951)	506
		-	Sol	Group freq	Marion	JACS	73 (1951)	305
		-	S	Ident	Bader	JACS	76 (1954)	1695
		-	-	Ident	Hochstein	JACS	77 (1955)	3551
		-	-	Group freq	Huebner	JACS	77 (1955)	469
		-	-	Ident	Mac Phillamy	JACS	77 (1955)	1071
		-	-	Ident	Mac Phillamy	JACS	77 (1955)	4335
$C_{21}H_{26}N_2O_4$	Canescic acid	-	-	Ident	Klohs	JACS	77 (1955)	4084
$C_{21}H_{26}N_2O_4$	Deserpidic acid	-	-	Ident	Mac Phillamy	JACS	77 (1955)	4335
$C_{21}H_{26}N_2O_5$	1-(3',4'-Dimethoxyphenyl)-2-Carboxy-6,7-dimethoxy-tetralin hydrazide	-	Sol	Band freq	Walker	JACS	76 (1954)	3999

$C_{21}H_{26}O_3$	$\Delta^{4,9(11),16}$ -Pregnatrien-21-ol-3,20-dione	-	S	Band & Group freq	Albu	JACS 77 (1955)	1028
$C_{21}H_{26}O_4$	$\Delta^{5,13(17a)}$ -Etiojervadiene- β -ol-11,17-dione acetate	-	S	Band freq	Fried	JACS 75 (1953)	4929
$C_{21}H_{26}O_4$	8-Hydroxy-3,20-diketo- Δ^4 -pregnen-19-oic acid lactone	1000-1900	Sol	Spec, Freq	Jones	JACS 81 (1959)	5242
$C_{21}H_{26}O_4$	Libocedroquinone	2.5-15 μ	-	Group freq	Zavarin	JOC 20 (1955)	788
$C_{21}H_{26}O_4$	16 α ,17 α -Oxido-4-pregnene-3,11-trione	-	-	Group freq	Peterson	JACS 77 (1955)	4428
$C_{21}H_{26}O_4$	$\Delta^{4,16}$ -Pregnadien-21-ol-3,11,20-trione	-	S	Band freq, Group freq	Allen	JACS 77 (1955)	1028
$C_{21}H_{26}O_5$	8,21-Dihydroxy-3,20-diketo- Δ^4 -17 α -pregnen-19-oic acid 8:19 lactone	1000-1900	Sol	Spec, Freq	Jones	JACS 81 (1959)	5242
$C_{21}H_{26}O_5$	17 α ,21-Dihydroxy-14-pregnadiene-3,11,20-trione	2.5-3.5 μ	Sol	Group study	Kabasakalian	AC 31 (1959)	375
$C_{21}H_{26}C_6$	Norquassin	-	S	Group study	Hanson	JCS - (1954)	4238
$C_{21}H_{26}O_{11}$	Anisatin triacetate	2-16 μ	S	Spec	Jane	JACS 74 (1952)	3211
$C_{21}H_{27}NO$	Methadone	-	-	Spec, Synthesis	Sletzinger	JACS 74 (1952)	5619
$C_{21}H_{27}NO$	Isomethadone	-	-	Spec, Synthesis	Sletzinger	JACS 74 (1952)	5619
$C_{21}H_{27}NO.HCl$	dL-Me thadone hydrochloride	650-5000	S	Spec	Manning	APS 10 (1956)	85
$C_{21}H_{27}NO_5$	Tetrahydroemethoxycolchicine	2-14 μ	S	Spec, Struc	Rapoport	JACS 76 (1954)	3693
$C_{21}H_{27}NO_6$	Tetrahydrocolchicine	1250-1800	Sol	Struc, Spec	Scott	JACS 72 (1950)	240

C ₂₁ H ₂₇ N ₂ O ₂	Formyldeacetyl- aspidospermine	-	Group freq, I, Struct	Witkop	JACS	76 (1954)	5603
C ₂₁ H ₂₈ D ₄ O ₂	Δ ⁵ -Pregnenol-3β-one-20- -6,17,21	Sol	Struc	Jones	JACS	74 (1952)	5662
C ₂₁ H ₂₈ INO ₃	1-o-Methylarmepavine methiodide	S	Ident	Kidd	JCS	- (1954)	669
C ₂₁ H ₂₈ N ₂	N-(1-Piperidino- isopropyl)-N-phenyl- benzylamine	-	Spec	Larizza	GCI	90 (1960)	848
C ₂₁ H ₂₈ N ₂ O	N-Methyldeacetylaspido- spermine	-	Ident, Freq, I	Witkop	JACS	76 (1954)	5603
C ₂₁ H ₂₈ O	4,5-Dihydro-p-t-butylphenyl duryl ketone	-	Band & Group freq, Struc	Fuson	JACS	76 (1954)	911
C ₂₁ H ₂₈ O ₂	2-t-Butyl-4-hydroxy-2,3- dihydrophenyl duryl ketone	-	Group freq	Fuson	JACS	76 (1954)	5466
C ₂₁ H ₂₈ O ₂	6-t-Butyl-4-keto-1- cyclohexenyl duryl ketone	-	Group freq	Fuson	JACS	76 (1954)	5466
C ₂₁ H ₂₈ O ₂	9,11-Dehydroprogesterone	-	Group freq	Ruff	JCS	- (1953)	3683
C ₂₁ H ₂₈ O ₂	2,2'-Dihydroxy-5,5'-di- t-butylidiphenylmethane	Sol	Band freq, Group study	Rosenkrauz	JACS	76 (1954)	2227
C ₂₁ H ₂₈ O ₂	Duryl 2-hydroxy-4-t-butyl -3,4-dihydrophenyl ketone	S,Sol	Assign, Spec	Richards	JCS	- (1947)	1260
C ₂₁ H ₂₈ O ₂	Δ ⁴ -17α-Ethyrylandrosteno- l-17β-one-3	-	Group freq	Fuson	JACS	77 (1955)	3781
C ₂₁ H ₂₈ O ₂	Δ ^{1,3,5:10} -3-Methoxy-17- acetylestetriene	Sol	Group freq, Struc	Jones	JACS	74 (1952)	2820
C ₂₁ H ₂₈ O ₂	3-Methoxy-17β-acetyl- -Δ ^{1,3,5(10)} -estratriene	Sol	Group freq	Jones	JACS	72 (1950)	956
C ₂₁ H ₂₈ O ₂		Sol	Ident	Sondheimer	JACS	76 (1954)	2230

$C_{21}H_{28}O_2$	$\Delta^{4,6}$ -Pregnadienedione- -3,20	- 1580-3100 752-1326	- Sol Sol	Assign Group study, I Table	Jones Jones Jones	JACS JACS JACS	70 (1948) 72 (1950) 77 (1955)	2024 86 651
$C_{21}H_{28}O_2$	$\Delta^{4,7}$ -Pregnadiene-3,20 -dione	670-3800	S	Spec, Ident	Antonucci	JOC	17 (1952)	1369
$C_{21}H_{28}O_2$	$\Delta^{4,11}$ -Pregnadiene -dione-3,20	-	Sol	Band freq, Struc	Jones	JACS	74 (1952)	2820
$C_{21}H_{28}O_2$	$\Delta^{4,16}$ -Pregnadiene -dione-3,20	- -	Sol -	Group freq, Struc Group freq	Jones Meister	JACS JACS	74 (1952) 75 (1953)	2820 55
$C_{21}H_{28}O_3$	Allopregn-16-ene-3,12, 20-trione	- -	S S	Ident Group freq	Collow James	JCS JCS	- (1955) - (1955)	1671 637
$C_{21}H_{28}O_3$	$\Delta^{9:11}$ -Allopregnene- trione-3,12,20	-	Sol	Group freq	Jones	JACS	72 (1950)	956
$C_{21}H_{28}O_3$	$\Delta^{4,9(11)}$ -Androstadiene -3,17-dione 17-ethylene ketal	-	S	Group freq	Bernstein	JOC	19 (1954)	41
$C_{21}H_{28}O_3$	3-Ethoxy- $\Delta^{3,5}$ - androstadiene-11,17 -dione	-	S	Group freq	Bernstein	JOC	18 (1953)	1166
$C_{21}H_{28}O_3$	11 α -Hydroxy-6- dehydroprogesterone	-	-	I, Group study	Peterson	JACS	75 (1953)	419
$C_{21}H_{28}O_3$	$\Delta^{1,4}$ -3-Ketoeti- alcoholadienic acid, methyl ester	-	Sol	Group freq	Jones	JACS	74 (1952)	5648
$C_{21}H_{28}O_3$	$\Delta^{1,4}$ -3-ketoeti- oladienic acid, methyl ester	1580-3100 - 660-1380	Sol Sol Sol	Group study, I Group freq Spec	Jones Jones Jones	JACS JACS JACS	72 (1950) 72 (1950) 77 (1955)	86 956 651
$C_{21}H_{28}O_3$	11-Ketoprogesterone	600-3900 -	L S	Spec Group freq, Ident	Peterson Bladou	JACS JCS	74 (1952) - (1952)	1871 2921

$C_{21}H_{28}O_3$	d1-11-keto-13 α - progesterone	-	-	Anal, Ident	Magerlein	JACS	75 (1953)	3654				
		-	-	Ident	Hanze	JACS	76 (1954)	3179				
		Sol	-	Ident	Johns	JACS	76 (1954)	5026				
		-	-	Spec, Ident	Poos	JACS	76 (1954)	5031				
$C_{21}H_{28}O_3$	d1-11-keto-14 β - progesterone	S	-	Freq	Arth	JACS	77 (1955)	3834				
$C_{21}H_{28}O_3$	d1-11-keto-14 β - progesterone	Sol	-	Freq	Arth	JACS	77 (1955)	3834				
$C_{21}H_{28}O_3$	$\Delta^{1,3,5:10}$ -3-Methoxy-17- carbomethoxyestratriene	Sol	-	Group freq	Jones	JACS	72 (1950)	956				
$C_{21}H_{28}O_3$	$\Delta^{1,3,5:10}$ -1-Methylestra- trienediol-3,17 β - acetate-17	Sol	-	Group freq	Jones	JACS	72 (1950)	956				
$C_{21}H_{28}O_3$	$\Delta^{1,3,5:10}$ -1-Methyl-3- methoxy-17-carboxy- estratriene	Sol	-	Group freq	Jones	JACS	72 (1950)	956				
$C_{21}H_{28}O_3$	16,17-Oxidoprogesterone	Sol	1600-1800	Group freq	Fuson	JACS	76 (1954)	2526				
$C_{21}H_{28}O_3$	6-Oxoprogesterone	Sol	-	Group freq	Amendolla	JCS	- (1954)	1226				
$C_{21}H_{28}O_3$	$\Delta^4,16$ -Pregnadien-21-ol- 3,20-dione	S	-	Band & Group freq	Allen	JACS	77 (1955)	1028				
$C_{21}H_{28}O_3$	Δ^4 -Pregnentriene-3,11,20	Sol	-	Band freq, Struc	Jones	JACS	74 (1952)	2820				
$C_{21}H_{28}O_4$	6 β -Acetoxy- Δ^4 -androstene- 3,17-dione	Sol	-	Group freq	Amendolla	JCS	- (1954)	1226				
		-	-	Ident	Eppstein	JACS	76 (1954)	3174				
$C_{21}H_{28}O_4$	17 β -Acetoxy- Δ^4 -androstene- 3,16-dione	S	-	Group freq, Band freq	Meyer	JACS	76 (1954)	3033				
		Sol	-	Struc	Bellamy	JCS	- (1957)	861				
$C_{21}H_{28}O_4$	Δ^4 -Androsten-2 α -ol-3,17- dione acetate	Sol	-	Band freq	Rosenbrang	JACS	77 (1955)	145				
$C_{21}H_{28}O_4$	Δ^4 -Androsten-11 α -ol-3,17- dione acetate	S	-	Group freq	Bernstein	JOC	19 (1954)	41				

$C_{21}H_{28}O_4$	Δ^4 -Androstenediol-17 β -dione-3,6 acetate	-	Sol	Group freq	Jones	JACS	72 (1950)	956
$C_{21}H_{28}O_4$	Δ^4 -Androsten-17 β -ol-3,11-dione acetate	-	S	Group freq	Bernstein	JOC	18 (1953)	1166
$C_{21}H_{28}O_4$	Δ^5 -Androster-3 β -ol-7,17-dione acetate	698-1318	Sol	Table	Jones	JACS	77 (1955)	651
$C_{21}H_{28}O_4$	dl-Dehydrocorticosterone	-	Sol	Band freq, Struct	Jones	JACS	74 (1952)	2820
		-	-	Band freq	Poss	JACS	76 (1954)	5031
		2-15 μ	S	Spec	Hayden	AC	27 (1955)	1486
$C_{21}H_{28}O_4$	dl- $\Delta^{5,14}$ -3-Ethylene-dioxyandrostadiene 11 β -ol-16-one	-	S	Band freq	Sarett	JACS	75 (1953)	2112
$C_{21}H_{28}O_4$	dl-3-Ethylenedioxy-5-androstene-11,16-dione	-	S	Freq	Arth	JACS	77 (1955)	3834
$C_{21}H_{28}O_4$	16 α ,17 α -Epoxy-5 α -pregnane-3,12,20-trione	-	-	Anal	Mueller	JACS	77 (1955)	143
$C_{21}H_{28}O_4$	Δ^5 -13 ξ ,17 $\alpha\xi$ -Etiojervine-3 β -ol-11,17-dione acetate	-	S	Group freq	Fried	JACS	75 (1953)	4929
$C_{21}H_{28}O_4$	11 α -Hydroxy-16 α ,17 α -oxidoprogesterone	-	-	Group indic	Peterson	JACS	77 (1955)	4428
$C_{21}H_{28}O_4$	17 α -Hydroxy- Δ^4 -pregnene-3,6,20-trione	-	-	Group freq, Struct	Meister	JACS	75 (1953)	416
$C_{21}H_{28}O_4$	17 α -Hydroxy- Δ^4 -pregnene-3,11,20-trione	-	Sol	Ident	Meister	JACS	75 (1953)	416
$C_{21}H_{28}O_4$	Marrubiin	753-3440	S,Sol	Freq, Struct	Cocker	JCS	- (1953)	2540
$C_{21}H_{28}O_4$	$\Delta^1,4$ -Pregnadiene-11 β ,21-diol-3,20-dione	-	S	Group freq	Nobile	JACS	77 (1955)	4184

$C_{21}H_{28}O_5$	$16\alpha, 17\alpha$ -Oxido- Δ^8 -allopregnene- $3\beta, 11\alpha$ -diol-7, 20-dione	-	S	Band freq, Group study	Djerassi	JACS	75 (1953)	3505
$C_{21}H_{28}O_5$	$11\beta, 17\alpha, 21$ -Trihydroxy- $1, 4$ -pregnadiene- $3, 20$ -dione	2.5-3.5 μ	Sol	Struc	Kabasakalian	AC	31 (1959)	375
$C_{21}H_{28}O_5$	$17, 20\beta, 21$ -Trihydroxy- $1, 4$ -pregnadiene- $3, 11$ -dione	2.5-3.5 μ	Sol	Struc	Kabasakalian	AC	31 (1959)	375
$C_{21}H_{28}O_6$	4b-Methyl-2-acetyl-7-ethylenedioxy-1, 2, 3, 4, 4a $\alpha, 4b, 5, 6, 7, 8, 10, 10a\beta$ -dodecahydrophenanthrene-4 β -ol-1-one acetate	-	S	Group freq	Lukes	JACS	75 (1953)	1707
$C_{21}H_{28}O_6$	Δ^4 -Pregnene- $2\alpha, 17\alpha, 21$ -triol- $3, 11, 20$ -trione	-	S	Band freq, Group study	Rosenkrang	JACS	77 (1955)	145
$C_{21}H_{28}O_6$	Δ^4 -Pregnene- $3, 11, 20$ -trione- $6\beta, 17\alpha, 21$ -triol	-	S	Band freq, Group study	Sondheimer	JACS	76 (1954)	5020
$C_{21}H_{28}O_8$	2, 4-Dicarbethoxy- $3-(3', 4'$ -dimethoxyphenyl)-5-hydroxy-5-methylcyclohexanone	-	Sol	Group freq	Walker	JACS	77 (1955)	3664
$C_{21}H_{29}BrO_2$	4-Bromoprogesterone	1550-1800	S	Spec, Substitution effect	Meda	SA	13 (1958)	75
$C_{21}H_{29}BrO_2$	6-Bromoprogesterone	-	Sol	Band freq	Sondheimer	JACS	75 (1953)	4712
$C_{21}H_{29}BrO_3$	Δ^1 -2-Bromo- 3 -ketoetiocolcholenic acid, methyl ester	-	Sol	Group freq	Jones	JACS	72 (1950)	956
$C_{21}H_{29}BrO_3$	Δ^4 -2-Bromo- 3 -ketoetiocolcholenic acid, methyl ester	-	Sol Sol	Group freq Group freq	Jones Jones	JACS JACS	72 (1950) 74 (1952)	956 5648

$C_{21}H_{29}BrO_3$	4-Bromopregnane- β ,11, 20-trione	-	Group freq	Holysz	JACS	75 (1953)	4432
$C_{21}H_{29}BrO_3$	4-Bromotestosterone acetate	S	1550-1800	Meda	SA	13 (1958)	75
$C_{21}H_{29}ClO_2$	4-Chloroprogesterone	S	1550-1800	Meda	SA	13 (1958)	75
$C_{21}H_{29}ClO_3$	21-chloro- Δ^4 -pregnene - β ,20-dione-17 α -ol	-	-	Djerassi	JACS	75 (1953)	3700
$C_{21}H_{29}ClO_3$	4-Chlorotestosterone acetate	S	1550-1800	Meda	SA	13 (1958)	75
$C_{21}H_{29}ClO_4$	4-Chloro-17 α -hydroxy- pregnane- β ,11,20- trione	-	-	Levin	JACS	76 (1954)	546
$C_{21}H_{29}FO_2$	4-Fluoroprogesterone	-	1550-1800	Meda	SA	13 (1958)	75
$C_{21}H_{29}FO_3$	4-Fluorotestosterone acetate	S	1550-1800	Meda	SA	13 (1958)	75
$C_{21}H_{29}FO_5$	9 α -Fluorohydrocortisone	S	-	Fried	JACS	76 (1954)	1455
$C_{21}H_{29}IN_2O_2$	Ajmaline methiodide	S	-	Anet	JCS	- (1954)	1242
$C_{21}H_{29}IN_2O_2$	Isoajmaline methiodide	S	-	Anet	JCS	- (1954)	1242
$C_{21}H_{29}NO_2$	6-t-Butyl-4-keto-1- cyclohexenyl duryl ketone-4-oxime	-	-	Fuson	JACS	76 (1954)	5466
$C_{21}H_{29}NO_4$	Hexahydrodethoxy- desoxycolicine	S	2-14 μ	Rapaport	JACS	76 (1954)	3693
$C_{21}H_{29}NO_6$	Hexahydrocolchicine	Sol	1250-1800	Scott	JACS	72 (1950)	240
$C_{21}H_{30}BrIO_3$	2-Iodo-4-bromoandrostanol -17 β -one- β -acetate	Sol	-	Jones	JACS	74 (1952)	5648

$C_{21}H_{30}Br_2O_3$	2,2-Dibromoandrostanol-17 β -one-3 acetate	-	Sol	Group freq	Jones	JACS	72 (1950)	956
$C_{21}H_{30}Br_2O_3$	2,4-Dibromoandrostanol-17 β -one-3 acetate	-	Sol	Group freq	Jones	JACS	74 (1952)	5648
$C_{21}H_{30}Br_2O_3$	2,2-Dibromo-3-ketoallocholanolic acid, methyl ester	-	Sol	Group freq	Jones	JACS	72 (1950)	956
$C_{21}H_{30}Br_2O_3$	2,4-Dibromo-3-ketoallocholanolic acid, methyl ester	-	Sol	Group freq	Jones	JACS	72 (1950)	956
$C_{21}H_{30}N_2O$	Deoxydihydro-N-methylisoajmaline	-	S	Group freq	Anet	JCS	- (1954)	1242
$C_{21}H_{30}N_2O_4$	Di-(5-ethoxycarbonyl-3-ethyl-4-methyl-2-pyrryl) methane	500-4000	Sol, S	Spec, Struct, Freq	Eisner	JCS	- (1958)	971
$C_{21}H_{30}O$	4,5-Dehydroretrovitamin A methyl ether	2-16 μ	-	Spec, Group freq	Oroshnik	JACS	75 (1953)	1050
$C_{21}H_{30}O$	$\Delta^{(2 \text{ or } 3), 11}$ -Pregnadiene-20	-	Sol	Group freq	Jones	JACS	72 (1950)	956
$C_{21}H_{30}O$	1-(2',6',6'-Trimethylcyclohex-2-en-1-ylidene)-3,7-dimethyl-9-methoxy-2,4,5,7-nona-1,2,4,5,7-triene	2-16 μ	-	Spec, Group freq	Oroshnik	JACS	75 (1953)	1050
$C_{21}H_{30}O_2$	$\Delta^{3,5}$ -Androstadienol-17 α acetate	1580-3100	Sol	Group study	Jones	JACS	72 (1950)	86
$C_{21}H_{30}O_2$	Camabidiol	-	Sol	Group freq	Jones	JACS	72 (1950)	956
$C_{21}H_{30}O_2$	17-Ethynyl- Δ^5 -androstene-3 β ,17 β -diol	650-1350	Sol	Struc	Adams	JACS	62 (1940)	732
$C_{21}H_{30}O_2$	Methyl 3,11-diketo-5 α -etianate	2-12 μ	Sol	Discussion	Jones	JACS	80 (1958)	6121
$C_{21}H_{30}O_2$	Methyl 3,11-diketo-5 α -etianate	2-12 μ	Sol	Spec	Simpson	HCA	37 (1954)	1200

$C_{21}H_{30}O_2$	$17\alpha, 20\text{-Oxido-}\Delta^4\text{-pregnen-3-one}$	-	Sol	Freq	Batres	JACS	77 (1955)	4155
$C_{21}H_{30}O_2$	$\Delta^4\text{-Pregnenedione-3,20}$	-	Sol	Assign Group study, I	Jones	JACS	70 (1948)	2024
		1580-3100	Sol	Microscopy	Jones	JACS	72 (1950)	86
		2.5-15 μ	S	Group band	Blout	JOSA	41 (1951)	547
		1500-3700	Sol	Band freq, Struc	Jones	JACS	74 (1952)	80
		-	Sol	Group freq, Struc	Jones	JACS	74 (1952)	5648
		-	-	Ident, Group freq	Fujimoto	JACS	75 (1953)	3259
		-	Sol	Ident	Amendolla	JCS	- (1954)	1226
		1600-1800	Sol	Group freq	Fuson	JACS	76 (1954)	2526
		683-1329	Sol	Group study	Jones	JACS	77 (1955)	651
		-	S, Sol	Group freq	Tarpley	APS	9 (1955)	69
		-	-	IR discussed	Morcillo	ARS	53B (1957)	145
		1550-1800	S	Spec, Group freq	Meda	SA	13 (1958)	75
$C_{21}H_{30}O_2$	$\Delta^5\text{-Pregnenedione-3,20}$	-	-	Assign	Jones	JACS	70 (1948)	2024
$C_{21}H_{30}O_2$	$\Delta^{5,6}\text{-Pregnadienol-3}\beta\text{-one-20}$	-	-	Assign Group study, I	Jones	JACS	70 (1948)	2024
		1580-3100	Sol	Group freq, Struc	Jones	JACS	72 (1950)	86
		-	Sol	Group & Band freq	Cole	JACS	74 (1952)	5571
		-	-	Group freq, Ident	Cards	JACS	75 (1953)	5416
$C_{21}H_{30}O_2$	$\Delta^7\text{-Pregnene-3,20-dione}$	-	S	Group freq, Ident	Velasco	JOC	18 (1953)	92
$C_{21}H_{30}O_2$	$\Delta^9(11)\text{-Pregnene-3,20-dione}$	-	-	Ident Band freq, Ident, Group study	Heryog Rosenkranz	JACS JACS	76 (1954) 76 (1954)	930 2227
$C_{21}H_{30}O_2$	$\Delta^{11}\text{-Pregnenedione-3,20}$	-	Sol	Group freq	Jones	JACS	72 (1950)	956
$C_{21}H_{30}O_2$	$\Delta^{16}\text{-Pregnenedione-3,20}$	-	-	Assign Group study, I	Jones	JACS	70 (1948)	2024
		1580-3100	Sol	Ident	Jones	JACS	72 (1950)	86
		-	-	Ident, Group freq	Scheer Wall	JACS JACS	77 (1955) 77 (1955)	641 1230
$C_{21}H_{30}O_2$	$\Delta^4\text{-Urenedione-3,11}$	-	Sol	Group freq	Jones	JACS	72 (1950)	956
$C_{21}H_{30}O_2$	$\Delta^4\text{-17-Vinylandrosthenol-17}\alpha\text{-one-3}$	-	Sol	Assign Spec	Jones Jones	JACS CIC	70 (1948) 2 (1950)	2024 94
		2800-3700	-					

$C_{21}H_{30}O_2S$	Δ^4 -Androstene-3,17-dione -17-ethylenehemithio- ketal	-	-	Sol	Group study, I Band study Group freq Group study	Jones Jones Jones Jones Romo	72 (1950) 74 (1952) 74 (1952) 77 (1955) 73 (1951)	86 80 5648 651 4961
$C_{21}H_{30}O_2S$	Δ^4 -Androstene-3,17-dione -3-oxathiolane	-	-	-	Group freq	Herzog	75 (1953)	4425
$C_{21}H_{30}O_2S$	Dehydroisandrosteryl thioacetate	670-3700	-	S	Spec	Bernstein	16 (1951)	679
$C_{21}H_{30}O_3$	β -Acetoxy- Δ^{14} - androstene	2.5-15 μ	-	Sol	Spec, Band freq	Hirschmann	74 (1952)	5357
$C_{21}H_{30}O_3$	$\Delta^{8,11}$ -Allopregnadiene -3 β ,20 β -diol-7-one	-	-	S	Group freq	Romo	74 (1952)	2918
$C_{21}H_{30}O_3$	$\Delta^{8:14,15}$ -Allopregnadiene -3 β ,20 β -diol-7-one	-	-	S	Band freq, Group study	Lemin	75 (1953)	1745
$C_{21}H_{30}O_3$	Allopregnane-3,6,20- trione	950-1350	-	Sol Sol	Group freq Band study, Struc	Amendolla Rosenkrantz	- (1954) 28 (1956)	1226 31
$C_{21}H_{30}O_3$	Allopregnane-3,15,20- trione	-	-	-	Ident	Djerassi	77 (1955)	3673
$C_{21}H_{30}O_3$	$\Delta^{8(9)}$ -Allopregnene-7,20- dione-3 β -ol	-	-	S	Freq, Group study	Djerassi	73 (1951)	4496
$C_{21}H_{30}O_3$	Δ^4 -Androstene-3,17-dione- 3-dioxolane	-	-	-	Group freq Ident	Heryog Johnson	75 (1953) 77 (1955)	4425 817
$C_{21}H_{30}O_3$	Δ^2 -Androsten-3-ol-17- one acetate	700-1400	-	Sol	Band study, Ident	Jones	78 (1956)	1152

$C_{21}H_{30}O_3$	Δ^4 -Androst-17 α -one-3 acetate	-	-	Assign Ident Table	Jones Sordheimer Jones	JACS JACS JACS	70 (1948) 75 (1953) 77 (1955)	2024 4712 651
$C_{21}H_{30}O_3$	Δ^4 -Androst-17 β -one-3 acetate	683-1330 700-1400	Sol Sol	Assign Table Band study, Ident	Jones Jones Jones	JACS JACS JACS	70 (1948) 77 (1955) 78 (1956)	2024 651 1152
$C_{21}H_{30}O_3$	Δ^5 -Androst-17 β -one-17 acetate	1580-3100 11.9-12.7 μ	Sol S, Sol Sol Sol Sol Sol	Assign Group study, I Band spec Group band Group freq Table Band study, Ident	Jones Jones Hirschmann Jones Jones Jones Jones	JACS JACS JACS JACS JACS JACS JACS	70 (1948) 72 (1950) 74 (1952) 74 (1952) 74 (1952) 77 (1955) 78 (1956)	2024 86 5357 80 5648 651 1152
$C_{21}H_{30}O_3$	$\Delta^{9:11}$ -Androst-17 α -one-17 acetate	2.5-15 μ	Sol	Assign Spec, Group freq	Jones Hirschmann	JACS JACS	70 (1948) 74 (1952)	2024 5357
$C_{21}H_{30}O_3$	Δ^{11} -Androst-17 α -one-17 acetate	2.5-13 μ	Sol Sol	Group freq, Struc Freq	Rosenkrantz Page	JACS JCS	75 (1953) - (1955)	903 2017
$C_{21}H_{30}O_3$	11-Deoxycorticosterone compound "Q"	2-15 μ	S	Spec	Hayden	AC	27 (1955)	1486
$C_{21}H_{30}O_3$	Δ^4 -20,21-Epoxy-pregnenol-17 α -one-3	-	-	Assign	Jones	JACS	70 (1948)	2024
$C_{21}H_{30}O_3$	16,17 α -Epoxy- Δ^5 -pregnenol-3 β -one-20	2-15 μ	Sol S, Sol	Spec, Steroids Group freq	Tarpley Tarpley	AC APS	24 (1952) 9 (1955)	315 69
$C_{21}H_{30}O_3$	$\Delta^{9:11}$ -Etiocolenol-3 α -one-17 acetate	-	-	Assign	Jones	JACS	70 (1948)	2024
$C_{21}H_{30}O_3$	2 α -Hydroxyprogesterone	-	-	Group freq	Clarke	JACS	77 (1955)	661
$C_{21}H_{30}O_3$	6 β -Hydroxyprogesterone	-	Sol	Group freq	Amendolla	JCS	- (1954)	1226
$C_{21}H_{30}O_3$	11 α -Hydroxy-17 α -progesterone	-	-	Group freq	Meister	JACS	75 (1953)	55

$C_{21}H_{30}O_3$	11 β -Hydroxyprogesterone	-	S	Group freq	Skull	JACS	77 (1955)	763
$C_{21}H_{30}O_3$	17 α -Hydroxyprogesterone	-	-	Ident	Meister	JACS	75 (1953)	416
$C_{21}H_{30}O_3$	19-Hydroxyprogesterone	-	Sol	Ident	Djerassi	JACS	77 (1955)	3826
$C_{21}H_{30}O_3$	19-Hydroxyprogesterone	-	Sol	Group freq	Barber	JOC	19 (1954)	1758
$C_{21}H_{30}O_3$	Δ^1 -3-ketoetioallocholenic acid, methyl ester	1580-3100	Sol	Group study, I	Jones	JACS	72 (1950)	86
$C_{21}H_{30}O_3$	17-Methyl-D-homoandrostanetriene-3,11,17a	-	Sol	Table, Group freq	Jones	JACS	74 (1952)	5648
$C_{21}H_{30}O_3$	17-Methyl-D-homoandrostanetriene-3,11,17a	744-1270	Sol	Table	Jones	JACS	77 (1955)	651
$C_{21}H_{30}O_3$	17-Methyl-D-homoandrostanetriene-3,11,17a	-	Sol	Table, Group freq	Jones	JACS	74 (1952)	5648
$C_{21}H_{30}O_3$	Methyl 3-keto- Δ^4 -etiocholenate	2-12 μ	Sol	Spec, Ident	Woodward	JACS	74 (1952)	4223
$C_{21}H_{30}O_3$	Methyl vinylacetate	-	-	Band freq, Group freq	Haworth	JCS	- (1955)	1983
$C_{21}H_{30}O_3$	Monohydroxyprogesterone	1000-1500	-	Spec	Heller	ZN	14b (1959)	298
$C_{21}H_{30}O_3$	16 α ,17 α -Oxidopregnane-3,20-dione	-	Sol	Band freq	Mancera	JACS	75 (1953)	1286
$C_{21}H_{30}O_3$	Pregnane triene-3,11,20	1700	Sol	Freq, Anal, Struc	Jones	JACS	71 (1949)	241
$C_{21}H_{30}O_3$	Pregnane triene-3,11,20	-	Sol	Band study	Jones	JACS	74 (1952)	80
$C_{21}H_{30}O_3$	Pregnane triene-3,11,20	-	Sol	Table, Group freq	Jones	JACS	74 (1952)	5648
$C_{21}H_{30}O_3$	Pregnane triene-3,11,20	-	Sol	Band freq, Group freq	Mancera	JACS	75 (1953)	1286
$C_{21}H_{30}O_3$	Pregnane triene-3,11,20	-	-	Ident	Peterson	JACS	75 (1953)	419
$C_{21}H_{30}O_3$	Pregnane triene-3,11,20	950-1350	S,Sol	Band study	Rosenkrantz	AC	28 (1956)	31
$C_{21}H_{30}O_3$	Pregnane triene-3,12,20	-	Sol	Group band study	Jones	JACS	74 (1952)	80
$C_{21}H_{30}O_3$	Δ^4 -Pregnene-3,20-dione-11 α -ol	-	-	Band freq	Mancera	JOC	17 (1952)	1066
$C_{21}H_{30}O_3$	Δ^4 -Pregnene-3,20-dione-11 α -ol	-	-	Ident	Peterson	JACS	74 (1952)	5933
$C_{21}H_{30}O_3$	Δ^4 -Pregnene-3,20-dione-11 α -ol	-	-	Ident	Fieser	JACS	75 (1953)	4377
$C_{21}H_{30}O_3$	Δ^4 -Pregnene-3,20-dione-11 α -ol	-	-	Group freq	Meister	JACS	75 (1953)	55
$C_{21}H_{30}O_3$	Δ^4 -Pregnenol-11 β -dione-3,20	-	Sol	Group study	Rosenkrantz	JOC	17 (1952)	290

$C_{21}H_{30}O_3$	Δ^4 -Pregnen-16 α -ol-3,20-dione	-	S	Group freq Band freq	Pertman Bernstein	JACS JACS	74 (1952) 76 (1954)	2126 5674
$C_{21}H_{30}O_3$	Δ^4 -Pregnenol-17 α -dione-3,20	1580-3100	-	Assign Group study, I Band freq, Struc Group study	Jones Jones Jones Kabasakalian	JACS JACS JACS AC	70 (1948) 72 (1950) 74 (1952) 31 (1959)	2024 86 2820 375
$C_{21}H_{30}O_3$	Δ^4 -17-Isopregnenol-17 β -dione-3,20	-	Sol	Band freq, Struc	Jones	JACS	74 (1952)	2820
$C_{21}H_{30}O_3$	Δ^4 -Pregnenol-21-dione-3,20	1580-3100 1500-1800 7.5-13.5 μ	- Sol Sol S,L, Sol	Assign Group study, I Band freq, Struc, Spec Spec, Band freq	Jones Jones Jones Rosenkrantz	JACS JACS JACS AC	70 (1948) 72 (1950) 74 (1952) 25 (1953)	2024 86 2820 1025
$C_{21}H_{30}O_3$	Uranetrione-3,11,20	-	S	Band freq	Bernstein	JACS	77 (1955)	2233
$C_{21}H_{30}O_4$	17 β -Acetoxyandrostane-3,6-dione	-	S,Sol Sol	Group freq Group study	Tarpley Kabasakalian	AFS AC	9 (1955) 31 (1959)	69 375
$C_{21}H_{30}O_4$	3 β -Acetoxy-16-hydroxy-16:17-seco- Δ^5 -andros-17- oic acid lactone	1000-1900	Sol	Group freq	Jones	JACS	72 (1950)	956
$C_{21}H_{30}O_4$	3 β -Acetoxy-17-hydroxy-16:17-seco- Δ^5 -andros-16- oic acid lactone	-	-	Struc	Eppstein	JACS	76 (1954)	3174
$C_{21}H_{30}O_4$	Allopregnane-17 α -ol-3,11,20-trione	1000-1900	Sol	Spec, Freq	Jones	JACS	81 (1959)	5242
$C_{21}H_{30}O_4$	Allopregnane-17 α -ol-3,11,20-trione	950-1350	S,Sol	Spec, Freq	Jones	JACS	81 (1959)	5242
$C_{21}H_{30}O_4$	7- Δ^1 -Allopregnene-17 α ,21-diol-3,20-dione	-	S	Struc	Rosenkrantz	AC	28 (1956)	31
$C_{21}H_{30}O_4$	7- Δ^1 -Allopregnene-17 α ,21-diol-3,20-dione	-	S	Band freq	Antonucci	JACS	76 (1954)	2956

$C_{21}H_{30}O_4$	Androstanol-3 α -dione 11,17 acetate	1700	Sol	Freq, Struct	Jones	JACS 71 (1949)	241
$C_{21}H_{30}O_4$	Δ^4 -Androstene-11 β , 17 β - diol-3-one 17-acetate	-	S	Group freq	Bernstein	JOC 18 (1953)	1166
$C_{21}H_{30}O_4$	5:6 α , 16 α : 17 α -Diepoxy-3 β - hydroxyallopregnane- 20-one	-	-	Group freq	Fudge	JCS - (1954)	958
$C_{21}H_{30}O_4$	11 α , 21-Dihydroxy-4- pregnene-3, 20-dione	-	-	Distinct from corticosterone	Eppstein	JACS 75 (1953)	408
$C_{21}H_{30}O_4$	17 β , 21-Dihydroxy-4- pregnene-3, 20-dione	-	Sol	Band freq, Spec, Struc	Jones	JACS 74 (1952)	2820
		7.5-13.2 μ	S, L	Ident	Eppstein	JACS 75 (1953)	408
		-	Sol	Spec, Band freq	Rosenkrantz	AC 25 (1953)	1025
		-	S	Ident	Toub	JACS 76 (1954)	4094
		-	S	Band freq, I	Bernstein	JACS 77 (1955)	2331
		2-15 μ	S	Spec	Hayden	AC 27 (1955)	1486
		-	S	Group freq	Shull	JACS 77 (1955)	763
$C_{21}H_{30}O_4$	17 α , 21-Dihydroxy-4- pregnene-3, 20-dione	2.5-3.5 μ	Sol	Group study	Kabasakalian	AC 31 (1959)	375
$C_{21}H_{30}O_4$	Dihydroxyprogesterone	1000-1050	-	Spec	Heller	ZN 14b (1959)	298
$C_{21}H_{30}O_4$	6 β , 17 α -Dihydroxy- progesterone	-	Sol	Ident	Meister	JACS 75 (1953)	416
		-	S	Group freq	Amendolla	JCS - (1954)	1226
$C_{21}H_{30}O_4$	11 α , 17 α -Dihydroxy- progesterone	-	-	Purity	Meister	JACS 75 (1953)	416
		-	-	Band freq, Ident	Romo	JACS 75 (1953)	1277
		-	-	Ident	Peterson	JACS 77 (1955)	4428
$C_{21}H_{30}O_4$	11 β , 17 α -Dihydroxy- progesterone	-	S	Group freq	Shull	JACS 77 (1955)	763
$C_{21}H_{30}O_4$	5 α , 6 α -Epoxyandrostanol- 3 β -one-17 acetate	-	Sol	Group freq	Jones	JACS 72 (1950)	956
$C_{21}H_{30}O_4$	5 β , 6 β -Epoxyandrostanol- 3 β -one-17 acetate	-	Sol	Group freq	Jones	JACS 72 (1950)	956

Formula	Compound Name	Assign	Author	JACS	Year	Page
$C_{21}H_{30}O_4$	5 α ,6 α -Epoxytiocholanol-3 β -one-17 acetate	-	Jones	JACS	70 (1948)	2024
$C_{21}H_{30}O_4$	5 β ,6 β -Epoxytiocholanol-3 β -one-17 acetate	-	Jones	JACS	70 (1948)	2024
$C_{21}H_{30}O_4$	Etiocholanol-3 α -dione-11,17 acetate	1700 770-3730	Jones Rosenkrantz	JACS JACS	71 (1949) 77 (1955)	241 2237
$C_{21}H_{30}O_4$	Δ^5 -13 ξ ,17 $\alpha\xi$ -Etiojervine-3 β ,17 ξ -diol-11-one-3-acetate	-	Fried	JACS	75 (1953)	4929
$C_{21}H_{30}O_4$	Δ^{13} -5 ξ ,17 $\alpha\xi$ -Etiojervine-3 β ,17 ξ -diol-11-one-3-acetate	-	Fried	JACS	75 (1953)	4929
$C_{21}H_{30}O_4$	17 β -Hydroxyandrost-5-ene-3,16-dione-3-ethylene ketal	-	Bellamy	JCS	- (1957)	861
$C_{21}H_{30}O_4$	17-Hydroxy-11-deoxycorticosterone	2-15 μ	Hayden	AC	27 (1955)	1486
$C_{21}H_{30}O_4$	6 β -Hydroxy-11-deoxycorticosterone	-	Eppstein	JACS	75 (1953)	408
$C_{21}H_{30}O_4$	9 β -(9 α)-Hydroxy-deoxycorticosterone	-	Stone	JACS	77 (1955)	3926
$C_{21}H_{30}O_4$	19-Hydroxy-11-deoxycorticosterone	-	Barber	JOC	19 (1954)	1758
$C_{21}H_{30}O_4$	17 $\alpha\beta$ -Hydroxymethyl-D-homo- Δ^4 -androst-17 $\alpha\alpha$ -ol-3,17-dione	-	Batres	JACS	76 (1954)	5171
$C_{21}H_{30}O_4$	2 α -Hydroxytestosterone-17-monoacetate	-	Clarke Rosenkrantz	JACS JACS	77 (1955) 77 (1955)	661 145
$C_{21}H_{30}O_4$	6 β -Hydroxytestosterone-17-monoacetate	-	Romo	JOC	19 (1954)	1509

$C_{21}H_{30}O_4$	$16\alpha, 17\alpha$ -Oxidoallopregnan- - 11α -ol- $3, 20$ -dione	-	-	Band freq, Group study	Romo	JACS	75 (1953)	1277
$C_{21}H_{30}O_4$	Pregnanol- 17α -trione- $3, 11, 20$	950-1350	Sol S, Sol	Band freq, Struc Struc	Jones Rosenkrantz	JACS AC	74 (1952) 28 (1956)	2820 31
$C_{21}H_{30}O_4$	Δ^4 -Pregnenediol- $6\beta, 11\alpha$ - dione- $3, 20$	-	-	Ident, Group study	Peterson	JACS	74 (1952)	5933
$C_{21}H_{30}O_4$	Δ^4 -Pregnene- $11\beta, 20\beta$ - diol- 3 -one- 21 -al	-	S	Group freq	Foub	JACS	76 (1954)	4094
$C_{21}H_{30}O_5$	Adhumulone	2.5-15 μ	Sol	Struc	Regby	JACS	77 (1955)	2828
$C_{21}H_{30}O_5$	Allopregnane- $17\alpha, 21$ - diol- $3, 11, 20$ -trione	950-1350	S, Sol	Struc	Rosenkrantz	AC	28 (1956)	31
$C_{21}H_{30}O_5$	$2\beta, 4b$ -Dimethyl- 2 - acetyl- 17 - ethylenedioxy- $1, 2, 3, 4,$ $4a\alpha, 4b, 5, 6, 7, 8, 10, 10a\beta$ - dodecahydrophenanthrene - 4β -ol- 1 -one	-	S	Band freq	Sarett	JACS	75 (1953)	2112
$C_{21}H_{30}O_5$	Humulone	2-10 μ	S	Spec, Group freq, H bond	Harris	JCS	- (1952)	1906
$C_{21}H_{30}O_5$	17α -Hydroxycorticost- erone compound F	2.5-15 μ	Sol	Group freq	Rigby	JACS	77 (1955)	2828
$C_{21}H_{30}O_5$	Isohumulone	700-3500	-	Spec	Jones	CIC	2 (1950)	94
$C_{21}H_{30}O_5$	11-epi-Hydrocortisone	2-12 μ	Sol	Spec, Iso	Callingsworth	JACS	74 (1952)	2831
$C_{21}H_{30}O_5$	Methyl 3β -hydroxy- $3\alpha,$ 9α -oxido- 11 - ketotriocholane	2-15 μ	-	Spec	Hayden	AC	27 (1955)	1486
$C_{21}H_{30}O_5$		-	-	Group freq	Shull	JACS	77 (1955)	763
$C_{21}H_{30}O_5$		2.5-15 μ	Sol	Spec, Struc, Freq	Carson Rigby	JACS JACS	74 (1952) 77 (1955)	4615 2828
$C_{21}H_{30}O_5$		-	-	Ident	Bernstein	JACS	75 (1953)	1481
$C_{21}H_{30}O_5$		-	-	Freq	Heymann	JACS	73 (1951)	4045
$C_{21}H_{30}O_5$		-	-	Ident	Hirschmann	JACS	75 (1953)	2361

$C_{21}H_{30}O_5$	$C_{21}H_{30}O_5$	$C_{21}H_{30}O_5$	$C_{21}H_{30}O_5$	$C_{21}H_{30}O_5$	$C_{21}H_{30}O_5$	$C_{21}H_{30}O_5$	$C_{21}H_{30}O_5$	$C_{21}H_{30}O_7$	$C_{21}H_{30}O_8$	$C_{21}H_{30}O_8 \cdot H_2O$
$16\alpha, 17\alpha$ -Oxidoallopregnane- $3\beta, 11\alpha$ -diol-7,20-dione	-	Sol	Band freq, Group study	Djerassi	JACS	75 (1953)	3505			
$16\alpha, 17\alpha$ -Oxidoallopregnane- $3\beta, 12\beta$ -diol-11,20-dione	-	Sol	Group freq	Martiney	JACS	75 (1953)	239			
Pregnane- $17\alpha, 21$ -diol- $3, 11, 20$ -trione	950-1350	S, Sol	Struc	Rosenkrantz	AC	28 (1956)	31			
Δ^4 -Pregnene- $2\alpha, 17\alpha, 21$ -triol- $3, 20$ -dione	-	S	Band freq, Group study	Rosenkrantz	JACS	77 (1955)	145			
Δ^4 -Pregnene- $3, 20$ -dione- $6\beta, 17\alpha, 21$ -triol	-	- S	Struc Band freq, Group study	Peterson Soudheimer	JACS JACS	75 (1953) 76 (1954)	412 5020			
Δ^4 -Pregnene- $11\alpha, 17\alpha, 21$ -triol- $3, 20$ -dione	2-15 μ	S	Spec, Group freq, Struc Reference	Antonucci Cords	JOC JACS	18 (1953) 75 (1953)	70 5416			
	-	S	Ident, Struc	Peterson	JACS	75 (1953)	412			
	-	-	Group study	Romo	JACS	75 (1953)	1277			
	-	S	Band freq, Group study	Soudheimer	JACS	75 (1953)	1282			
$17\alpha, 20\alpha, 21$ -Trihydroxy-4-pregnene- $3, 11$ -dione	2.5-3.5 μ	Sol	Group study	Kabasakalian	AC	31 (1959)	375			
$17\alpha, 20\beta, 21$ -Trihydroxy-4-pregnene- $3, 11$ -dione	2.5-3.5 μ	Sol	Group study	Kabasakalian	AC	31 (1959)	375			
Trihydroxyprogesterone	1000-1150	-	Spec	Heller	ZN	14b (1959)	298			
Δ^4 -Pregnene- $11\beta, 17\alpha, 21$ -triol- $3, 20$ -dione	2-15 μ 2.5-3.5 μ	S Sol	Spec, Group freq Group study	Antonucci Kabasakalian	JOC AC	18 (1953) 31 (1959)	70 375			
Methyl 3 -oxo- $5, (11), 14, 19$ -tetrahydroxy- Δ^1 - 14β -etienate	-	-	Struc	Florey	JOC	19 (1954)	1174			
Altermaric acid	760-1560	S	Spec, Group freq	Grove	JOS	- (1952)	4056			
Altermaric acid monohydrate	-	S	Band freq, Spec,	Grove	JOS	- (1952)	4056			

$C_{21}H_{31}D_3O_2$	Androstanol- 3α acetate- d_3	-	Sol	Freq	Jones	JACS	74 (1952)	5662
$C_{21}H_{31}D_3O_2$	Androstanol- 3β acetate- d_3	-	Sol	Freq	Jones	JACS	74 (1952)	5662
$C_{21}H_{31}D_3O_2$	Androstanol- 17β acetate- d_3	-	Sol	Freq	Jones	JACS	74 (1952)	5662
$C_{21}H_{31}BrO_3$	2-Bromo-3-keto- etioallocholanolic acid, Methyl ester	-	Sol	Group freq	Jones	JACS	72 (1950)	956
$C_{21}H_{31}BrO_3$	21-Bromopregnanol- 17α - dione- $3,20$	-	Sol	Band freq, Struc Band study, Group freq	Jones Jones	JACS JACS	74 (1952) 74 (1952)	2820 2828
$C_{21}H_{31}ClO_2$	21-Chloroallopregnane - $3,20$ -dione	-	Sol	Band freq	Djerassi	JACS	75 (1953)	3700
$C_{21}H_{31}ClO_3$	4-Chlorotestan- 17β -ol- 3 -one acetate	-	Sol	Band freq	Beereboom	JACS	75 (1953)	3500
$C_{21}H_{31}ClO_4$	5-Chloroisoandrolo- lactone acetate	700-4000	S	Spec, H bond, Struc	Gual	SA	13 (1958)	248
$C_{21}H_{31}NO$	Staphisine	2-13 μ	S	H bond	Dasgupta	JICS	32 (1955)	767
$C_{21}H_{31}NO_6$	Oxoisoatisinedi- carboxylic acid	-	-	Ident	Pelletier	JACS	76 (1954)	4496
$C_{21}H_{31}O_2$	Δ^4 - 17α -Vinylandrostenol- 17β -one- 3	-	Sol	Band freq, Struc	Jones	JACS	74 (1952)	2820
$C_{21}H_{32}O$	Δ^2 -Allopregnen-20-one	920-1291	Sol	Table	Jones	JACS	77 (1955)	651
$C_{21}H_{32}O$	3,7-Dimethyl-1-(2,6,6- trimethylcyclohex-2- enylidene)-nona-2,4- cis-6-trien-9-ol methyl ether	2-16 μ	L	Spec	Oroshnik	JACS	76 (1954)	5719

$C_{21}H_{32}O$	$2-16\mu$	L	Spec	Oroshnik	JACS	76 (1954)	5719
3,7-Dimethyl-1-(2,6,6-trimethylcyclohex-2-enylidene)-nona-2,4-trans-6-trien-9-ol methyl ether							
17-Ethynylandrostan-17 β -ol	3100-3400	S	Ident, Freq	Filler	CIL	- (1957)	1322
1,2,3,4,9,10,11,12-Octahydro-7-methoxy-1,1,12-trimethyl-8-isopropylphenanthrene	700-4000	L	Spec, Group freq, Struc	Short	JCS	- (1951)	2979
$\Delta^{5,17:20}$ -Pregnadienol-3 β	-	Sol	Group freq, Stereo study	Cole	JACS	74 (1952)	5571
5-Pregnenolone	-	-	IR discussed	Morcillo	ARS	53B (1957)	145
Δ^5 -Pregnen-20-one	-	S,Sol	Group & Band freq,	Daus	JACS	75 (1953)	3840
5 β -Pregnen-20-one	2-15 μ	-	Struc	Casu	GCI	90 (1960)	1147
3,7,11,15-Tetramethyl-hexadeca-3,5-cis-7,9,11,14-hexaen-1-ol methyl ether	2-16 μ	S	Spec	Oroshnik	JACS	76 (1954)	5719
3,7,11,15-Tetramethyl-hexadeca-3,5-trans-7,9,11,14-hexaen-1-ol methyl ether	2-16 μ	L	Spec	Oroshnik	JACS	76 (1954)	5719
Vitamin A methyl ether	2-16 μ	-	Spec, Ident	Oroshnik	JACS	76 (1954)	5499
α -Vitamin A methyl ether	2-16 μ	-	Spec, Ident	Oroshnik	JACS	76 (1954)	5499
Allopregnenedione-3,20	-	-	Assign Group band study	Jones Jones	JACS JACS	70 (1948) 74 (1952)	2024 80

$C_{21}H_{32}O_2$	$\Delta^{9:11}$ -Allopregnenol- 3β -one-20	-	950-1350	Sol S, Sol	Group freq Struc	Jones Rosenkrantz	JACS AC	74 (1952) 28 (1956)	5648 31
$C_{21}H_{32}O_2$	Δ^{16} -Allopregnenol- 3β -one-20	-	-	Sol	Group freq, Stereo study	Cole	JACS	74 (1952)	5571
$C_{21}H_{32}O_2$	Δ^{16} -Androst-enol- 3α acetate	-	2.5-13 μ	Sol Sol	Group freq Spec, Group freq, Struc Freq	Jones Rosenkrantz	JACS JACS	72 (1950) 75 (1953)	956 903
$C_{21}H_{32}O_2$	Δ^5 -Androst-enol- 3β acetate	-	700-1400	Sol Sol	Group freq Band study, Ident	Page	JCS	- (1955)	2017
$C_{21}H_{32}O_2$	Δ^{16} -Androst-en-17-ol acetate	-	700-1400	Sol	Band study, Ident	Jones	JACS	78 (1956)	1152
$C_{21}H_{32}O_2$	Δ^4 -17-Ethyl-androst-enol- 17α -one- 3	-	-	- Sol	Assign Freq, Group study	Jones Bates	JACS JACS	70 (1948) 77 (1955)	2024 4155
$C_{21}H_{32}O_2$	17-Ethyl-enedioxy- Δ^2 -androstene	-	-	Sol	Group absorption	Iriarte	JOC	20 (1955)	542
$C_{21}H_{32}O_2$	Δ^{16} -Etiochol-enol- 3α acetate	-	-	Sol	Group freq	Jones	JACS	72 (1950)	956
$C_{21}H_{32}O_2$	Δ^{16} -Etiochol-enol- 3β acetate	-	-	Sol	Group freq	Jones	JACS	72 (1950)	956
$C_{21}H_{32}O_2$	3β -Hydroxy- $\Delta^{17:20}$ -cis-pregnenone-11	2.5-15 μ	-	Sol	Spec, Band freq	Hirschmann	JACS	74 (1952)	5357
$C_{21}H_{32}O_2$	Methyl abietate	1300-1800 2-15 μ	-	- L	Spec Spec	Barnes Kendall	IEC APS	15 (1943) 7 (1953)	659 179

$C_{21}H_{32}O_2$		Sol	Group freq	Hamirey	JACS	77 (1955)	134
$17\alpha\beta$ -Methyl-D-homoandrostane- β ,17-dione	-	-		Hamirey	JACS	77 (1955)	134
$C_{21}H_{32}O_2$	3-Methyl-1-(2,6,6-trimethylcyclohex-2-enylidene)-nona-2,4-cis-dien-6-ol acetate	L	Spec	Oroshnik	JACS	76 (1954)	5719
$C_{21}H_{32}O_2$	3-Methyl-1-(2,6,6-trimethylcyclohex-2-enylidene)nona-2,4-trans-dien-6-ol acetate	L	Spec	Oroshnik	JACS	76 (1954)	5719
$C_{21}H_{32}O_2$	3-Methyl-1-(2,6,6-trimethylcyclohex-2-enylidene)nona-2-cis,4-trans-dien-6-ol acetate	L	Spec	Oroshnik	JACS	76 (1954)	5719
$C_{21}H_{32}O_2$	$\Delta^{2,5(10)}$ -19-nor- β -Methoxy-20-hydroxy-pregnadiene	-	Group band Group band	Miramontes Djerassi	JACS JACS	73 (1951) 75 (1953)	3540 4440
$C_{21}H_{32}O_2$	Pregnenedione- β ,20	-	Assign Group freq Spec Ident Struc	Jones Jones Jones Slomp Rosenkrantz	JACS JACS JACS JACS AC	70 (1948) 74 (1952) 77 (1955) 77 (1955) 28 (1956)	2024 5648 651 1216 31
$C_{21}H_{32}O_2$	Δ^4 -Pregnen-20 β -ol- β -one	Sol	Band freq, Group study	Sondheimer	JACS	75 (1953)	5930
$C_{21}H_{32}O_2$	Δ^5 -Pregnenol- β -one-20	-	Assign Group freq, Stereo study	Jones Cole	JACS JACS	70 (1948) 74 (1952)	2024 5571
	1657-1757	Sol	Band study	Jones	JACS	74 (1952)	80
	1300-1500	Sol	Band freq, Struc	Jones	JACS	74 (1952)	2820
	1300-1500	Sol	Spec, Group freq	Jones	JACS	74 (1952)	5648
	2-15 μ	Sol	Spec, Group freq	Jones	JACS	74 (1952)	5662
	-	Sol	Spec	Tarpley	AC	24 (1952)	315
	-	-	Group freq	Daus	JACS	75 (1953)	3840

1518

$C_{21}H_{32}O_2$	Δ^7 -Pregnen- 3α -ol-20-one	S, Sol	Group freq	Turner	JACS	75 (1953)	4362
-	-	Sol	Ident	Saba	JACS	76 (1954)	3862
-	-	S, Sol	Group freq	Tarpley	APS	9 (1955)	69
650-1350	-	Sol	Spec	Jones	JACS	80 (1958)	6121
2.5-3.5 μ	-	Sol	Group study	Kabasakalian	AC	31 (1959)	375
$C_{21}H_{32}O_2$	Δ^7 -Pregnen- 3α -ol-20-one	S	Group freq, Group study	Velasco	JOC	18 (1953)	92
$C_{21}H_{32}O_2$	Δ^{11} -Pregnenol- 3α -one-20	Sol	Group freq, Stereo study	Cole	JACS	74 (1952)	5571
$C_{21}H_{32}O_2$	Δ^{11} -Pregnenol- 3β -one-20	-	Assign	Jones	JACS	70 (1948)	2024
$C_{21}H_{32}O_2$	Δ^{16} -Pregnenol- 3α -one-20	-	Assign	Jones	JACS	70 (1948)	2024
1580-3100	-	Sol	Group study, I	Jones	JACS	72 (1950)	86
-	-	Sol	Group freq, Struc	Jones	JACS	74 (1952)	2820
$C_{21}H_{32}O_2$	1-(2',6',6'-Trimethylcyclohexen-1'-yl)-3-hydroxy-3,7-dimethyl-9-methoxy-1,4,5,7-nona-tetraene	-	Spec, Group freq	Oroshnik	JACS	75 (1953)	1050
$C_{21}H_{32}O_2$	1-(2',6',6'-Trimethylcyclohexen-1'-yl)-3-hydroxy-3,7-dimethyl-9-methoxy-1,7-nonadien-4-yne	-	Spec, Group freq	Oroshnik	JACS	75 (1953)	1050
$C_{21}H_{32}O_2$	Uranedione	Sol	Freq, Struc, Anal	Jones	JACS	71 (1949)	241
$C_{21}H_{32}O_2S$	Testosterone ethylene hemithioetal	Sol	Band freq	Djerassi	JACS	75 (1953)	3704
$C_{21}H_{32}O_3$	Allopregnanol-11 α -dione-3,20	-	Band freq	Mancera	JOC	17 (1952)	1066
-	-	-	Ident	Peterson	JACS	74 (1952)	5933
-	-	-	Ident, Anal	Eppstein	JACS	75 (1953)	421
-	-	-	Ident	Mancera	JACS	75 (1953)	1286
$C_{21}H_{32}O_3$	Allopregnan-17 α -ol-3,20-dione	S, Sol	Struc, Band study	Rosenkrantz	AC	28 (1956)	31

$C_{21}H_{32}O_3$	Allopregnanol-21-dione - β ,20	-	Sol S, Sol	Band freq Band study	Djerassi Rosenkrantz	JACS AC	75 (1953) 28 (1956)	3700 31
$C_{21}H_{32}O_3$	Δ^7 -Allopregnene- 3β ,17 α - diol-20-one	-	S	Freq, Group study	Pataki	JACS	74 (1952)	3436
$C_{21}H_{32}O_3$	Androstanol- 3α -one-17 acetate	-	- Sol	Assign Band study, I, Stereo study	Jones Jones	JACS JACS	70 (1948) 73 (1951)	2024 3215
		-	Sol	Group band study	Jones	JACS	74 (1952)	80
		-	Sol	Group freq	Jones	JACS	74 (1952)	5648
		2.5-13 μ	Sol	Group freq, Struc	Rosenkrantz	JACS	75 (1953)	903
		-	Sol	Band freq	Iriarate	JOC	20 (1955)	542
		822-1290	Sol	Table	Jones	JACS	77 (1955)	651
		-	Sol	Freq	Page	JCS	- (1955)	2017
		770-3700	Sol	Freq, I	Rosenkrantz	JACS	77 (1955)	2237
		700-1400	Sol	Band study, Struc	Jones	JACS	78 (1956)	1152
$C_{21}H_{32}O_3$	Androstanol- 3β -one- 17 acetate	-	- Sol	Assign Band study, I, Stereo study	Jones Jones	JACS JACS	70 (1948) 73 (1951)	2024 3215
		2.5-15 μ	Sol	Spec, Band freq	Hirschmann	JACS	74 (1952)	5357
		-	Sol	Band freq	Barnes	JCS	- (1953)	571
		-	-	Ident	Leeds	JACS	76 (1954)	2265
		710-1292	Sol	Table	Jones	JACS	77 (1955)	651
		770-3700	Sol	Freq, I	Rosenkrantz	JACS	77 (1955)	2237
		700-1400	Sol	Band study, Struc	Jones	JACS	78 (1956)	1152
$C_{21}H_{32}O_3$	Androstanol-17 α -one - β acetate	-	-	Assign	Jones	JACS	70 (1948)	2024
$C_{21}H_{32}O_3$	Androstanol-17 β -one- β acetate	-	- Sol	Assign Band freq, Ident	Jones Beereboom	JACS JACS	70 (1948) 75 (1953)	2024 3500
		700-1400	Sol	Band study, Ident	Jones	JACS	78 (1956)	1152
$C_{21}H_{32}O_3$	Δ^5 -Androstenediol- 3β , 17 α -acetate- β	-	-	Assign	Jones	JACS	70 (1948)	2024
$C_{21}H_{32}O_3$	Δ^5 -Androstenediol- 3β ,17 α - acetate-17	-	- Sol	Assign Group freq, Stereo study	Jones Cole	JACS JACS	70 (1948) 74 (1952)	2024 5571

$C_{21}H_{32}O_3$	$3\alpha, 9\alpha$ -Epoxypregnanol-20-one-11	1687-1787 -	Sol Sol	Band study Group freq	Jones Jones	JACS JACS	74 (1952) 74 (1952)	80 5648
$C_{21}H_{32}O_3$	$16\alpha, 17\alpha$ -Epoxyallo-pregnanol- 3β -one-20	1713	Sol	Anal, Absorption freq	Jones	JACS	71 (1949)	241
$C_{21}H_{32}O_3$	Etiocolanol- 3α -one-17 acetate	2700-4000 1195-1275	Sol Sol	Freq, Stereo study Band freq, Struc	Cole Jones	JACS JACS	74 (1952) 74 (1952)	5571 2820
$C_{21}H_{32}O_3$	$2.5-13\mu$ 708-1170	2700-4000 1195-1275	Sol Sol	Spec, Assign Band study, I, Stereo study	Jones Jones	JACS JACS	70 (1948) 73 (1951)	2024 3215
$C_{21}H_{32}O_3$	$770-3700$ 700-1400	2.5-13 μ 708-1170	Sol Sol	Group freq, Struc Table Freq	Rosenkrantz Jones Page	JACS JACS JCS	75 (1953) 77 (1955) - (1955)	903 651 2017
$C_{21}H_{32}O_3$	Etiocolanol- 3β -one-17 acetate	770-3700 700-1400	Sol Sol	Freq, I Band study, Ident, Spec	Rosenkrantz Jones	JACS JACS	77 (1955) 78 (1956)	2237 1152
$C_{21}H_{32}O_3$	Etiocolanol- 3β -one-17 acetate	1195-1275	- Sol	Assign Band study, I, Stereo study	Jones Jones	JACS JACS	70 (1948) 73 (1951)	2024 3215
$C_{21}H_{32}O_3$	Etiocolanol- 17β -ol- 3 -one acetate	708-1171 770-3700 700-1400	Sol Sol Sol	Table Freq, I Band study, Ident	Jones Rosenkrantz Jones	JACS JACS JACS	77 (1955) 77 (1955) 78 (1956)	651 2237 1152
$C_{21}H_{32}O_3$	Δ^5 - 3β -Hydroxyetiocolonic acid, methyl ester	700-1400 950-1350	Sol S, Sol	Table Band study, Ident Band study	Jones Jones Rosenkrantz	JACS JACS AC	77 (1955) 78 (1956) 28 (1956)	651 1152 31
$C_{21}H_{32}O_3$	Δ^{11} - 3α -Hydroxyetiocolonic acid, methyl ester	- -	Sol Sol	Group freq Freq, Stereo study	Jones Cole	JACS JACS	72 (1950) 74 (1952)	956 5571
$C_{21}H_{32}O_3$	Methyl 3 -ketoetiocoloanate	2-12 μ	S	Spec, Ident	Woodward	JACS	74 (1952)	4223
$C_{21}H_{32}O_3$	Methyl 13β -methyl-12-nor- 3 -oxo- $1\beta, 14\alpha$ -abietate-4-en-15-ate	- -	S	Group freq	Subluskey	JACS	76 (1954)	3512

$C_{21}H_{32}O_3$		Sol	Group freq	Iriarte	JOC	20 (1955)	542
$C_{21}H_{32}O_3$	2 α ,3 α -Oxido-17-ethylenedioxy-androstane	-	-				
$C_{21}H_{32}O_3$	Pregnano1-3 α -dione-11,20	1700	Freq, Struc, Anal Band freq, Struc	Jones	JACS	71 (1949)	241
$C_{21}H_{32}O_3$	-	-	Group freq	Jones	JACS	74 (1952)	2820
$C_{21}H_{32}O_3$	-	-	Band freq, Group study	Jones	JACS	74 (1952)	5648
$C_{21}H_{32}O_3$	2,5-13 μ	-	Group freq, Struc	Mancera	JACS	75 (1953)	1286
$C_{21}H_{32}O_3$	770-3700	S	Group freq, I	Rosenkrantz	JACS	75 (1953)	903
$C_{21}H_{32}O_3$	-	-	Band freq, Group study	Rosenkrantz	JACS	77 (1955)	2237
$C_{21}H_{32}O_3$	Pregnan-11 α -ol-3,20-dione	950-1350	Band freq, Band study	Mancera	JACS	75 (1953)	1286
$C_{21}H_{32}O_3$	11 β -Pregnano1-3,20-dione	-	Group freq	Rosenkrantz	AC	28 (1956)	31
$C_{21}H_{32}O_3$	Pregnan-17 α -ol-3,20-dione	950-1350	Band freq, Band study	Rosenkrantz	JOC	17 (1952)	290
$C_{21}H_{32}O_3$	Δ^4 -Pregnene-3 β ,6 β -diol-20-one	-	Group freq	Mancera	JACS	75 (1953)	1286
$C_{21}H_{32}O_3$	Δ^5 -Pregnene-3 β ,16 α -diol-20-one	-	Band freq	Rosenkrantz	AC	28 (1956)	31
$C_{21}H_{32}O_3$	"Steviol" methyl ester	2-15 μ	Group freq	Amendolla	JCS	- (1954)	1226
$C_{21}H_{32}O_3$	"Isosteviol" methyl ester	2-15 μ	Band freq	Bernstein	JACS	76 (1954)	5674
$C_{21}H_{32}O_3$	d1-Testosterone-3-ketal	-	Assign Group study, I	Jones	JACS	70 (1948)	2024
$C_{21}H_{32}O_3$	3 α -Acetoxy-13-hydroxy-17-oic acid lactone	1000-1900	Spec, Group freq	Jones	JACS	72 (1950)	86
$C_{21}H_{32}O_4$	-	-	Spec, Group freq	Mosettig	JOC	20 (1955)	884
$C_{21}H_{32}O_4$	-	-	Ident	Mosettig	JOC	20 (1955)	884
$C_{21}H_{32}O_4$	-	-	Spec, Freq	Johnson	JACS	77 (1955)	817
$C_{21}H_{32}O_4$	-	-	Spec, Freq	Jones	JACS	81 (1959)	5242

$C_{21}H_{32}O_5$	4-Pregnene-11,17,20, 21-tetrol-3-one	-	-	Spec, Struc	Huang-Minlon	JACS	74 (1952)	1562
$C_{21}H_{32}O_5$	11 α ,17 α ,21-Trihydroxy- allopregnane-3,20- dione	-	-	Iso	Peterson	JACS	75 (1953)	412
$C_{21}H_{32}O_5$	11 α ,17 α ,21-Trihydroxy- pregnane-3,20-dione	-	-	Ident	Peterson	JACS	75 (1953)	412
$C_{21}H_{32}O_6$	Pregnane-5 α ,11 β ,17 α ,21- tetrol-3,20-dione	-	S	Band freq	Bernstein	JACS	77 (1955)	2233
$C_{21}H_{32}O_8$	Methyl 5-oxo-1 β ,5,(11), 14,19-Pentahydroxy-14 β - etianate	-	-	Struc	Florey	JOC	19 (1954)	1174
$C_{21}H_{33}BrO$	17-Bromoallopregnane -20	-	Sol	Band freq, Struc	Jones	JACS	74 (1952)	2820
$C_{21}H_{33}BrO$	17 α -Bromoallo- pregnanone-20	-	Sol	Band freq, Struc	Jones	JACS	74 (1952)	2828
$C_{21}H_{33}BrO_3$	4 β -Bromotestane-3 α ,17 β - diol-17-acetate	-	-	Band freq	Fieser	JACS	75 (1953)	4837
$C_{21}H_{33}BrO_3$	4 β -Bromotestane-3 β , 17 β -diol-17-acetate	-	-	Band freq	Fieser	JACS	75 (1953)	4837
$C_{21}H_{33}BrO_3$	21-Bromopregnanediol- 3 α ,17 α -one-20	-	Sol Sol	Band freq, Struc Band freq	Jones Jones	JACS JACS	74 (1952) 74 (1952)	2820 2828
$C_{21}H_{33}ClO_3$	4-Chlorotestane-3,17 β - diol 17-acetate	-	Sol	Band freq	Beereboom	JACS	75 (1953)	3500
$C_{21}H_{33}N$	N,N-Dimethyl- dehydroabietane-1-amine	-	-	Group study	Zeiss	JACS	75 (1953)	5935
$C_{21}H_{34}N_6$	N-(Dodecyl) Phenylmelamine	2-16 μ	S	Spec, Struc, Assign	Pedgett	JACS	80 (1958)	803
$C_{21}H_{34}O$	Allopregnane-3	-	Sol Sol	Group freq Table	Jones Jones	JACS JACS	72 (1950) 77 (1955)	956 651

$C_{21}H_{34}O$	Allopregnanone-20	-	Sol	Group freq	Jones	JACS	72 (1950)	956
		-	Sol	Group freq, Band study	Jones	JACS	74 (1952)	2828
		-	-	Group study	Cardwell	JCS	- (1953)	361
		-	-	Band freq, Ident	Daus	JACS	75 (1953)	3840
		920-1290	Sol	Table	Jones	JACS	77 (1955)	651
		950-1350	S, Sol	Band study	Rosenkrantz	AC	28 (1956)	31
$C_{21}H_{34}O$	3α -Hydroxy- $\Delta^{17:20}$ -trans-pregnene	2.5-15 μ	Sol	Spec, Band freq	Hirschmann	JACS	74 (1952)	5357
$C_{21}H_{34}O$	Δ^5 -Pregnan- 3β -ol	650-1350	Sol	Generalisations	Jones	JACS	80 (1958)	6121
$C_{21}H_{34}O$	Pregnanone-7	1660-1760	Sol	Group freq	Jones	JACS	72 (1950)	956
		-	Sol	Band width	Jones	JACS	74 (1952)	80
		-	Sol	Group freq, Band study	Jones	JACS	74 (1952)	2828
		-	Sol	Group freq	Jones	JACS	74 (1952)	5648
$C_{21}H_{34}O$	Pregnanone-12	-	Sol	Absorption freq, Anal. struc	Jones	JACS	71 (1949)	241
$C_{21}H_{34}OS$	Androstan-17-one ethylene hemithioacetal	1755-1655	Sol	Band study	Jones	JACS	74 (1952)	80
		-	Sol	Group freq, Band study	Jones	JACS	74 (1952)	2828
		-	Sol	Group freq	Jones	JACS	74 (1952)	5648
$C_{21}H_{34}O$	Allopregnanol- 3α -one-20	-	-	Band freq	Djerassi	JACS	75 (1953)	3704
		-	Sol	Assign Group freq, Stereo study	Jones	JACS	70 (1948)	2024
		-	Sol	Band freq, Struc	Cole	JACS	74 (1952)	5571
		-	Sol	Group freq, Band study	Jones	JACS	74 (1952)	2820
		-	Sol	Group freq, Struc	Jones	JACS	74 (1952)	2828
		770-3700	Sol	Group freq, Struc	Rosenkrantz	JACS	75 (1953)	903
		650-1350	Sol	Group freq, Struc	Rosenkrantz	JACS	77 (1955)	2237
		-	-	Generalisations	Jones	JACS	80 (1958)	6121
$C_{21}H_{34}O$	Allopregnanol- 3β -one-20	-	-	Assign Group freq, Stereo study	Jones	JACS	70 (1948)	2024
		-	Sol	Band freq, Ident	Cole	JACS	74 (1952)	5571
		2.5-13 μ	Sol	Group freq, Struc	Mancera	JACS	75 (1953)	1286
		700-1360	Sol	Group freq, Struc	Rosenkrantz	JACS	75 (1953)	903
		770-3700	Sol	Spec	Jones	JACS	77 (1955)	651
		650-1350	Sol	Freq, I	Rosenkrantz	JACS	77 (1955)	2237
		-	Sol	Generalisations	Jones	JACS	80 (1958)	6121

$C_{21}H_{34}O_2$	Isoallopregnanol-17 β -one-3	-	S, Sol	Group freq	Tarpley	APS	9 (1955)	69
$C_{21}H_{34}O_2$	Allopregnan-20 α -ol-3-one	650-1350	Sol	Generalisations	Jones	JACS	80 (1958)	6121
$C_{21}H_{34}O_2$	Allopregnan-20 β -ol-3-one	650-1350	Sol	Generalisations	Jones	JACS	80 (1958)	6121
$C_{21}H_{34}O_2$	Δ^{16} -Allopregnene-diol-3 β , 20 β	1580-3100	Sol	Group study, I	Jones	JACS	72 (1950)	86
$C_{21}H_{34}O_2$	Androstanol-3 α acetate	-	Sol	Group freq	Jones	JACS	72 (1950)	956
		-	Sol	Group freq	Jones	JACS	74 (1952)	5648
		-	Sol	Freq	Jones	JACS	74 (1952)	5662
		770-3700	Sol	Freq, I	Rosenkrantz	JACS	77 (1955)	2237
		700-1400	Sol	Spec, Band study, Ident	Jones	JACS	78 (1956)	1152
$C_{21}H_{34}O_2$	Androstanol-3 β acetate	-	Sol	Group freq	Jones	JACS	72 (1950)	956
		1350-1500	Sol	Spec, Group freq	Jones	JACS	74 (1952)	5648
		-	Sol	Group study	Jones	JACS	74 (1952)	5662
		770-3700	Sol	Freq, I	Rosenkrantz	JACS	77 (1955)	2237
		700-1400	Sol	Spec, Band study, Ident	Jones	JACS	78 (1956)	1152
$C_{21}H_{34}O_2$	Androstanol-17 β acetate	-	Sol	Group freq	Jones	JACS	72 (1950)	956
		1350-1500	Sol	Spec, Group freq	Jones	JACS	74 (1952)	5648
		-	Sol	Group study	Jones	JACS	74 (1952)	5662
		770-3700	Sol	Freq, I	Rosenkrantz	JACS	77 (1955)	2237
		700-1400	Sol	Spec, Band study, Ident	Jones	JACS	78 (1956)	1152
$C_{21}H_{34}O_2$	3,7-Dimethyl-1-(2,6,6-trimethylcyclohex-1-enyl)nona-1,5-cis,7-triene-3,9-diol 9-methyl ether	2-16 μ	L	Spec	Oroshnik	JACS	76 (1954)	5719
$C_{21}H_{34}O_2$	3,7-Dimethyl-1-(2,6,6-trimethylcyclohex-1-enyl)nona-1,5-trans,7-triene-3,9-diol 9-methyl ether	2-16 μ	L	Spec	Oroshnik	JACS	76 (1954)	5719

$C_{21}H_{34}O_2$	2-16 μ	L	Spec	Oroshnik	JACS	76 (1954)	5719
3,7-Dimethyl-1-(2,6,6-trimethylcyclohex-1-enyl)nona-2,5-cis,7-triene-4,9-diol 9-methyl ether	2-16 μ	L	Spec	Oroshnik	JACS	76 (1954)	5719
3,7-Dimethyl-1-(2,6,6-trimethylcyclohex-1-enyl)nona-2,5-trans,7-triene-4,9-diol 9-methyl ether	2-16 μ	L	Spec	Oroshnik	JACS	76 (1954)	5719
Etiolichoic acid, methyl ester	-	Sol	Group freq	Jones	JACS	72 (1950)	956
Etiocolan-3 α -ol acetate	770-3700 700-1400	Sol Sol	Freq, I Spec, Band Ident	Rosenkrantz Jones	JACS JACS	77 (1955) 78 (1956)	2237 1152
Etiocolan-3 β -ol acetate	700-1400	Sol	Spec, Band Ident	Jones	JACS	78 (1956)	1152
Etiocolan-17 β -ol acetate	700-1400	Sol	Spec, Band Ident	Jones	JACS	78 (1956)	1152
3 β -Hydroxy-17 α , β -methyl-D-homoandrostan-17-one	-	Sol	Group freq	Ramirey	JACS	77 (1955)	134
17-Isopregnanol-3 α -one-20	-	- Sol	Assign Group freq, Stereo study	Jones Cole	JACS JACS	70 (1948) 74 (1952)	2024 5571
Methyl arachidonate	2.5-13 μ 700-3300	Sol Sol L	Band freq, Group freq, Stereo study Spec, Band Anal	Jones Rosenkrantz Sinclair	JACS JACS JACS	74 (1952) 75 (1953) 74 (1952)	2820 903 2578
17-Methyl-D-homoandrostanol-3 β -one-17a	-	Sol	Group freq, Stereo study	Cole	JACS	74 (1952)	5571
Pregnanol-3 α -one-20	-	- Sol	Assign Group freq, Stereo study	Jones Cole	JACS JACS	70 (1948) 74 (1952)	2024 5571

$C_{21}H_{34}O_3$	Androstane-3 α ,17 α acetate-3	-	Assign	Jones	JACS	70 (1948)	2024
$C_{21}H_{34}O_3$	Androstane-3 α ,17 β -diol acetate-3	700-1400	Band study, Ident	Jones	JACS	78 (1956)	1152
$C_{21}H_{34}O_3$	Androstane-3 α ,17 β acetate-17	-	Group freq, Stereo study	Cole	JACS	74 (1952)	5571
$C_{21}H_{34}O_3$	Androstane-3 α ,17 β -diol acetate-3	700-1400 650-1350	Band study, Ident Band study	Jones Jones	JACS JACS	78 (1956) 80 (1958)	1152 6121
$C_{21}H_{34}O_3$	Androstane 17-ethylene ketal	-	Group band	Iriarte	JOC	20 (1955)	542
$C_{21}H_{34}O_3$	Etiocholane-3 α ,17 α acetate-17	-	Group freq	Jones	JACS	72 (1950)	956
$C_{21}H_{34}O_3$	Etiocholane-3 α ,17 β -diol acetate-17	700-1400 650-1350	Band study, Ident Generalisations	Jones Jones	JACS JACS	78 (1956) 80 (1958)	1152 6121
$C_{21}H_{34}O_3$	Etiocholane-3 β ,17 β acetate-17	-	Group freq, Stereo study	Cole	JACS	74 (1952)	5571
$C_{21}H_{34}O_3$	3 β -Hydroxyetiocholanic acid, methyl ester	700-1400	Band study, Ident	Jones	JACS	78 (1956)	1152
$C_{21}H_{34}O_3$	3 α -Hydroxyetiocholanic acid, methyl ester	- 2-12 μ	Group freq	Jones Woodward	JACS JACS	72 (1950) 74 (1952)	956 4223
$C_{21}H_{34}O_3$	Pregnanediol-3 α ,6 α -one-20	-	Group freq, Stereo study	Cole	JACS	74 (1952)	5571
$C_{21}H_{34}O_3$	Pregnanediol-3 α ,11 α -one-20	2.5-13 μ	Band freq, Struc Group freq, Struc	Jones Rosenkrantz	JACS JACS	74 (1952) 75 (1953)	2820 903
$C_{21}H_{34}O_3$	Pregnanediol-3 α ,17 α -one-20	-	Assign Band freq	Jones Sondheimer	JACS JACS	70 (1948) 75 (1953)	2024 1282
$C_{21}H_{34}O_3$	Pregnanediol-3 α ,17 α -one-20	- 2.5-13 μ 770-3700	Band freq, Struc Band freq Group freq, Struc Freq, I	Jones Mancera Rosenkrantz Rosenkrantz	JACS JACS JACS JACS	74 (1952) 75 (1953) 75 (1953) 77 (1955)	2820 1286 903 2237

$C_{21}H_{34}O_3$	Pregnane- $3\alpha, 20\alpha$ -diol-11-one	770-3700	S	Freq, I	Rosenkrantz	JACS	77 (1955)	2237
$C_{21}H_{34}O_3$	Pregnanediol- $3\alpha, 20$ (epi)-one-11	1713	Sol	Absorp freq, Struc, Anal	Jones	JACS	71 (1949)	241
		-	S	Band freq, Group indic	Mancera	JACS	75 (1953)	1286
		-	-	Ident	Magerlein	JACS	77 (1955)	1904
		770-3700	Sol	Freq, I	Rosenkrantz	JACS	77 (1955)	2237
$C_{21}H_{34}O_3$	Pregnanediol- $3\beta, 12\beta$ -one-20	-	-	Assign	Jones	JACS	70 (1948)	2024
$C_{21}H_{34}O_3$	Pregnanediol- $3\beta, 17\alpha$ -one-20	-	Sol	Band freq, Struc	Jones	JACS	74 (1952)	2820
		770-3700	S	Freq, I	Rosenkrantz	JACS	77 (1955)	2237
		650-1350	S	Generalisations	Jones	JACS	80 (1958)	6121
$C_{21}H_{34}O_3$	Androstan-17-one ethylene hemithioacetal sulfone	-	Sol	Band freq, Ident	Djerassi	JACS	75 (1953)	3704
$C_{21}H_{34}O_4$	Allopregnane- $3\alpha, 17\alpha, 21$ -triol-20-one	770-3700	S	Freq, I	Rosenkrantz	JACS	77 (1955)	2237
$C_{21}H_{34}O_4$	Allopregnane- $3\beta, 11\alpha, 17\alpha$ -triol-20-one	-	-	Band freq, Group indic	Romo	JACS	75 (1953)	1277
$C_{21}H_{34}O_4$	Allopregnane- $3\beta, 11\alpha, 20$ -triol-7-one	-	S	Freq	Stork	JACS	73 (1951)	3546
		-	S	Band freq	Djerassi	JACS	75 (1953)	3505
$C_{21}H_{34}O_4$	Allopregnane- $3\beta, 11\beta, 21$ -triol-20-one	770-3700	S	Freq, I	Rosenkrantz	JACS	77 (1955)	2237
$C_{21}H_{34}O_4$	Allopregnane- $3\beta, 17\alpha, 21$ -triol-20-one	770-3700	S	Freq, I	Rosenkrantz	JACS	77 (1955)	2237
$C_{21}H_{34}O_4$	Pregnane- $3\alpha, 17\alpha, 20\beta$ -triol-11-one	-	-	Group indic	Oliveto	JACS	75 (1953)	488
		-	S, Sol	Group freq	Tarpley	APS	9 (1955)	69
$C_{21}H_{34}O_4$	Pregnane- $3\alpha, 17\alpha, 21$ -triol-20-one	770-3700	S	Freq, I	Rosenkrantz	JACS	77 (1955)	2237
$C_{21}H_{34}O_4$	Pregnane- $3\beta, 17\alpha, 21$ -triol-20-one	770-3700	S	Freq, I	Rosenkrantz	JACS	77 (1955)	2237

$C_{21}H_{34}O_5$	Allopregnane-3 α ,11 β ,17 α , 21-tetrol-20-one	770-3700	S	Band freq, I	Rosenkrantz	JACS	77 (1955)	2237
$C_{21}H_{34}O_5$	Pregnane-3 α ,11 β ,17 α , 21-tetrol-20-one	770-3700	S	Freq, I	Rosenkrantz	JACS	77 (1955)	2237
$C_{21}H_{34}O_5$	Pregnane-3 β ,11 β ,17 α , 21-tetrol-20-one	770-3700	S	Freq, I	Rosenkrantz	JACS	77 (1955)	2237
$C_{21}H_{34}O_5$	5 α -Pregnane-3 β ,11 β ,17 α , 21-tetrol-20-one	- 770-3700	S	Group freq Freq, I	Chamberlin Rosenkrantz	JACS JACS	77 (1955) 77 (1955)	1221 2237
$C_{21}H_{35}NO_3$	Methyl cativate 7-oxime	-	-	Freq	Grant	JACS	76 (1954)	5001
$C_{21}H_{35}NO_4$	o-Acetoxymethyl-N- dodecylbenzene- sulfonamide	-	-	Group freq, Struc	Rice	JACS	75 (1953)	4304
$C_{21}H_{36}$	Allopregnane	- 950-1350	Sol S,Sol	Group freq Freq	Jones Rosenkrantz	JACS AC	74 (1952) 28 (1956)	5648 31
$C_{21}H_{36}$	Pregnane	- 950-1350	Sol S,Sol	Group freq Freq	Jones Rosenkrantz	JACS AC	74 (1952) 28 (1956)	5648 31
$C_{21}H_{36}N_6$	N,N',N''-Tricyclohexyl- melamine	2-16 μ	S	Struc, Assign	Pedgett	JACS	80 (1958)	803
$C_{21}H_{36}O$	Allopregnan-3 α -ol	650-1350	Sol	Generalisations	Jones	JACS	80 (1958)	6121
$C_{21}H_{36}O$	Allopregnan-3 β -ol	400-4000	Sol	Spec, Extinction coeff, Absorption band, Config.	Cummins	JCS	- (1957)	3847
$C_{21}H_{36}O$	Allopregnan-20 α -ol	650-1350	Sol	Generalisation	Jones	JACS	80 (1958)	6121
$C_{21}H_{36}O$	Allopregnan-20 β -ol	650-1350	Sol	Generalisation	Jones	JACS	80 (1958)	6121
$C_{21}H_{36}O$	Pregnan-3 α -ol	650-1350	Sol	Spec, Generalisation	Jones	JACS	80 (1958)	6121
$C_{21}H_{36}O$	Pregnan-3 α -ol	650-1350	Sol	Generalisation	Jones	JACS	80 (1958)	6121

$C_{21}H_{36}O$	Pregnan- 3β -ol	-	Sol	Group freq, Stereo study	Cole	JACS	74 (1952)	5571
		770-3700	Sol	Freq, I	Rosenkrantz	JACS	77 (1955)	2237
		650-1350	Sol	Generalisation	Jones	JACS	80 (1958)	6121
$C_{21}H_{36}O$	Pregnan- 20α -ol	-	Sol	Group freq	Jones	JACS	74 (1952)	5648
		650-1350	Sol	Spec, Generalisation	Jones	JACS	80 (1958)	6121
$C_{21}H_{36}O$	Pregnan- 20β -ol	650-1350	Sol	Spec	Jones	JACS	80 (1958)	6121
$C_{21}H_{36}O_2$	Allopregnane- $3\alpha, 20\alpha$ -diol	650-1350	S	Generalisation	Jones	JACS	80 (1958)	6121
$C_{21}H_{36}O_2$	Allopregnane- $3\beta, 20\alpha$ -diol	770-3700	S	Freq, I	Rosenkrantz	JACS	77 (1955)	2237
		650-1350	Sol	Generalisation	Jones	JACS	80 (1958)	6121
$C_{21}H_{36}O_2$	Allopregnane- $3\beta, 20\beta$ -diol	770-3700	Sol	Freq, I	Rosenkrantz	JACS	77 (1955)	2237
$C_{21}H_{36}O_2$	Pregnane- $3\alpha, 20\alpha$ -diol	-	-	Assign	Jones	JACS	70 (1948)	2024
		770-3700	S	Freq, I	Rosenkrantz	JACS	77 (1955)	2237
$C_{21}H_{36}O_2$	Pregnane- $3\alpha, 20\beta$ -diol	770-3700	S	Freq, I	Rosenkrantz	JACS	77 (1955)	2237
$C_{21}H_{36}O_2$	Pregnane- $3\beta, 20\beta$ -diol	-	-	Assign	Jones	JACS	70 (1948)	2024
$C_{21}H_{36}O_2$	2-(3,7,11-Trimethyl-2-dodecyl)-1,3-cyclohexanedione	1550-1750	Sol	Spec, Assign	Ananchenko	IANS	- (1960)	1644
$C_{21}H_{36}O_2$	Uranediol- $3\beta, 11$	1650-1800	Sol	Group study	Jones	JACS	72 (1950)	956
$C_{21}H_{36}O_3$	Allopregnane- $3\beta, 11\alpha, 20\beta$ -triol	-	-	no carbonyl band	Stork	JACS	73 (1951)	3546
		-	-	no carbonyl band	Djerassi	JACS	75 (1953)	3505
$C_{21}H_{36}O_3$	Glycidyl linoleate	10-15 μ	-	Spec, Group freq	Patterson	AC	26 (1954)	823
$C_{21}H_{36}O_3$	2-Methyl-3-hexadecyl-maleic anhydride	1750-1850	Sol	Band freq	Dauben	JOC	24 (1959)	1595
$C_{21}H_{36}O_3$	Pregnane- $3\alpha, 17\alpha, 20\alpha$ -triol	770-3700	S	Freq, I	Rosenkrantz	JACS	77 (1955)	2237

C ₂₁ H ₃₆ O ₅	Allopregnane-3β, 11β, 17α, 20β, 21-pentol	770-3700	S	Freq, I	Rosenkrantz	JACS	77 (1955)	2237
C ₂₁ H ₃₇ N ₂ O ₂	3β, 17α-Dihydroxy-20α-aminoallopregnane	-	Sol	Band freq	Ramirey	JACS	77 (1955)	134
C ₂₁ H ₃₇ N ₂ O ₂ ·HNO ₃	3β, 17α-Dihydroxy-20α-aminoallopregnane nitrate	-	Sol	Ident	Ramirey	JACS	77 (1955)	134
C ₂₁ H ₃₇ N ₂ O ₇	Hexa-L-alanyl-L-alanine	-	S	Struct	Zahn	A	636 (1960)	132
C ₂₁ H ₃₈ O ₄	Methyl 12-acetoxy-elaidate	2-12 μ	Sol	Substitution effect	McCutcheon	JAOC	36 (1959)	450
C ₂₁ H ₃₈ O ₄	Methyl acetyl-ricinoleate	2-15 μ	L	Spec	Kendall	APS	7 (1953)	179
C ₂₁ H ₃₉ Br	1-Bromoheneicosyne-2	-	L, Sol	Group freq	Sammul	JACS	75 (1953)	4856
C ₂₁ H ₃₉ N ₃ O ₃	Acrylamidostearic acid	946-3434	-	Table, I	Role	JACS	75 (1953)	5479
C ₂₁ H ₃₉ N ₇ O ₁₂ ·3HBr	Streptomycin trihydrobromide	-	-	Spec	Heuser	JACS	75 (1953)	4013
C ₂₁ H ₃₉ N ₇ O ₁₂ ·3HCl	Streptomycin trihydrochloride	-	-	Spec	Heuser	JACS	75 (1953)	4013
C ₂₁ H ₃₉ N ₇ O ₁₂ ·3HNO ₃	Streptomycin trinitrate	-	-	Spec	Heuser	JACS	75 (1953)	4013
C ₂₁ H ₃₉ N ₇ O ₁₂ · $\frac{3}{2}$ H ₂ SO ₄	Streptomycin sesquisulfate	-	-	Spec	Heuser	JACS	75 (1953)	4013
C ₂₁ H ₃₉ N ₇ O ₁₂ · $\frac{3}{2}$ H ₃ PO ₄	Streptomycin sesquiphosphate	-	-	Spec	Heuser	JACS	75 (1953)	4013

$C_{21}H_{40}$	Heneicosyne-2	-	-	Ident	Sammul	JACS	75 (1953)	4856
$C_{21}H_{40}O$	2-Heneicosynol-1	-	S, Sol	Group freq	Sammul	JACS	75 (1953)	4856
$C_{21}H_{40}O_2$	2-Methyl-2-eicosenoic acid	-	Sol	Band freq	Cason	JOC	19 (1954)	1836
$C_{21}H_{40}O_2$	trans-9-Octadecenoic acid n-propyl ester	-	-	Group freq, Oxidation	Skellon	JCS	- (1953)	138
$C_{21}H_{40}O_2$	Stearyl acrylate	2-15 μ	L	Discussion, Assign	Walton	JACS	79 (1957)	3985
$C_{21}H_{40}O_3$	Propylene glycol monooleate	2-15 μ	L	Spec	Kendall	APS	7 (1953)	179
$C_{21}H_{40}O_4$	Ethylene glycol monomethyl ether ricinoleate	2-15 μ	L	Spec	Kendall	APS	7 (1953)	179
$C_{21}H_{40}O_4$	Glycerol monooleate	2-15 μ	L	Spec	Kendall	APS	7 (1953)	179
$C_{21}H_{40}O_4Si_3$	1-Allyloxy-2,4,6-tris(trimethylsiloxy)methylbenzene	-	-	Struc	Burkthazol	JACS	75 (1953)	5957
$C_{21}H_{40}O_5$	Glycerol monoricinoleate	2-15 μ	L	Spec	Kendall	APS	7 (1953)	179
$C_{21}H_{40}O_8$	Dihydroerythronolide	-	-	Band freq	Wiley	JACS	77 (1955)	3676
$C_{21}H_{42}N_6$	N-octadecylmelamine	2-16 μ	S	Spec, Struc, Assign	Padgett	JACS	80 (1958)	803
$C_{21}H_{42}O_2$	Heneicosanoic acid	1100-1400 700-3500 720	S S, Sol S	Spec, Band progression Spec, Band freq, Struc Band study	Jones Sinclair Chapman	JACS JACS JCS	74 (1952) 74 (1952) - (1957)	2575 2570 4489
$C_{21}H_{42}O_2$	Methyl eicosanoate	700-3500	Sol	Spec, Band freq, Struc	Sinclair	JACS	74 (1952)	2570
$C_{21}H_{42}O_2$	n-Propyl stearate	1650-1800	Sol	Group study	Cross	TFS	47 (1951)	354
$C_{21}H_{42}O_2$	4,8,12-Trimethyl-octadecanoic acid	7-15 μ	Sol	Spec, Band freq, Struc	Freeman	JACS	74 (1952)	2523

$C_{21}H_{42}O_4$	Glyceryl monostearate	-	-	Struc Spec	Gray Kendall	JPC APS	53 (1949) 7 (1953)	23 179
$C_{21}H_{42}O_4$	1-Monostearin	2-15 μ	S	Struc, Polymorphic transition	Chapman	JCS	- (1956)	55
$C_{21}H_{42}O_4$	2-Monostearin	650-3500	S	Spec, Struc, Polymorphic transition	Chapman	JCS	- (1956)	55
$C_{21}H_{44}$	n-Heneicosane	750-1200	S	Struc	Snyder	JCP	27 (1957)	969
		650-800	S	Spec	Martin	SA	12 (1958)	12
		700-1500	S	Freq, Assign	Snyder	JNS	4 (1960)	411
$C_{21}H_{44}ClN$	Cyclohexylmethyl- dodecylidimethyl- ammonium chloride	-	-	Purity, Freq	Cella	JACS	77 (1955)	4264
$C_{21}H_{44}N_2O_3$	Urea-ethylstearate complex	-	-	Freq, Struct	Scorocco	AAN	24 (1958)	435
$C_{21}H_{44}N_2O_3$	Urea-n-octadecyl acetate complex	-	-	Freq, Struct	Scorocco	AAN	24 (1958)	435
$C_{21}H_{44}O_4$	1,1,5,5-Tetra-n- butoxypentane	-	-	Preparation	Hall	JCS	- (1951)	2480
$C_{21}H_{44}Si$	Cyclopentamethylene di-2-ethylhexylsilane	2-35 μ	L	Assign	Oshesky	JACS	79 (1957)	2057
$C_{21}H_{44}Si$	Cyclopentamethylene- dioctylsilane	2-35 μ	L	Assign	Oshesky	JACS	79 (1957)	2057

C₂₂ COMPOUNDS

$C_{22}H_8Br_2O_2$	4,10-Dibromoanthrone	600-2000	S	Spec	Durie	AJC	10 (1957)	429
$C_{22}H_{12}$	Anthanthrene	650-2020	S	Spec	Cannon	SA	4 (1951)	373
$C_{22}H_{12}$	1,12-Benzperylene	650-2010	S	Spec	Cannon	SA	4 (1951)	373

$C_{22}H_{12}O_2$	1,2,3,4-Dibenz-anthraquinone	1600-1800	Sol	Group freq	Josien	JCP	21 (1953)	331
$C_{22}H_{12}O_2$	1,2,5,6-Dibenzanthra-9,10-quinone	1600-1800	Sol	Group freq	Josien	JCP	21 (1953)	331
$C_{22}H_{12}O_2$	2,3,6,7-Dibenzanthra-quinone	1600-1800	Sol	Group freq	Josien	JCP	21 (1953)	331
$C_{22}H_{12}O_2$	Picene quinone	1600-1800	Sol	Group freq	Josien	JCP	21 (1953)	331
$C_{22}H_{14}$	1,2,3,4-Dibenzanthra-cene	670-3150 650-2020	S S	Spec, Band freq Spec	Orr Cannon	JCS SA	- 4 (1951)	218 373
$C_{22}H_{14}$	1,2,5,6-Dibenz-anthracene	670-3150 670-2010	S S	Spec, Band freq Spec	Orr Cannon	JCS SA	- 4 (1951)	218 373
$C_{22}H_{14}$	1,2,6,7-Dibenz-anthracene	670-3150 650-2020	S S	Spec, Band freq Spec	Orr Cannon	JCS SA	- 4 (1951)	218 373
$C_{22}H_{14}$	1,2,7,8-Dibenz-anthracene	650-2010	S	Spec	Cannon	SA	4 (1951)	373
$C_{22}H_{14}$	1:2,5:6-Dibenz-phenanthrene	670-3150	S	Spec, Band freq	Orr	JCS	- (1950)	218
$C_{22}H_{14}$	1,2(2',1')-Naphtha-anthracene	650-2010	S	Spec	Cannon	SA	4 (1951)	373
$C_{22}H_{14}$	Picene	-	S	Spec	Phillips	JACS	77 (1955)	3856
$C_{22}H_{14}N_2O$	2-Keto-1-phenyl-1,2-dihydroquinolino-3':2'-3:4-quinoline	1450-3700	S	Spec, Struct	Mann	JCS	- (1949)	2816
$C_{22}H_{14}N_2O$ HCl	2-Keto-1-phenyl-1,2-dihydroquinolino-3':2'-3:4-quinoline hydrochloride	1450-3600	S	Spec, Struct	Mann	JCS	- (1949)	2816
$C_{22}H_{14}O$	Dibenzanthrone	650-2000	S	Substitution effect	Cannon	SA	4 (1951)	373

$C_{22}H_{14}O_8$	Dibenzoyl phthaloyl peroxide	-	Sol	Group freq	Davison	JCS	- (1951)	2456
$C_{22}H_{14}O_{12}$	Ellagic acid tetraacetate	5.0-6.15 μ	S	Struct	Stitt	JACS	81 (1959)	4615
$C_{22}H_{15}NO_3$	1-Methylbenzamidoanthraquinone	1641-1676	-	Group freq	Flett	JCS	- (1948)	1441
$C_{22}H_{15}NO_3$	1,4,4-Triphenyl-2,3,5-pyrrolidine trione	2-16 μ	S	Spec	Skimmer	JACS	72 (1950)	5569
$C_{22}H_{15}N_2O_4S_2$	2-Azido-1,4-naphthoquinonedibenzene-sulfonimide	-	-	Group study	Adams	JACS	74 (1952)	5560
$C_{22}H_{16}$	9,10-Dihydro-1,2,5,6-dibenzanthracene	670-3150 650-2040	S S	Spec, Band freq Spec	Orr Cannon	JCS SA	- (1950) 4 (1951)	218 373
$C_{22}H_{16}$	8,8-Diphenylbenzofulvene	660-4000	Sol	Spec	Wood	AC	30 (1958)	1339
$C_{22}H_{16}BrN$	3-Bromo-1,2,4-triphenylpyrrole	-	Sol	Ident	Wasserman	JOC	19 (1954)	515
$C_{22}H_{16}N_2$	1-Phenyl-1,2-dihydroquinolino-3:2'-3:4-quinoline	1450-3700	S	Spec, Struct	Mann	JCS	- (1949)	2816
$C_{22}H_{16}N_2O$	1,2-Dihydro-1-methyl-2-oxo-1'-phenylindolo (3':2'-3:4)quinoline	-	-	Band freq	Braunholtz	JCS	- (1955)	381
$C_{22}H_{16}N_2O$	2-Keto-1-phenyl-1,2,1',4'-tetrahydroquinolino-3':2'-3:4-quinoline	1450-3600	S	Spec, Struct	Mann	JCS	- (1949)	2816
$C_{22}H_{16}N_2O_2$	6,6'-Dimethylquinaldyl	-	-	Group freq	Buehler	JACS	74 (1952)	977
$C_{22}H_{16}N_2O_4S_2$	2,3-Diazo-1,4-naphthalene dibenzene-sulfonamide	-	-	Group study	Adams	JACS	74 (1952)	5560

$C_{22}H_{16}O_2$	9-Benzoyloxy-10-methyl-anthracene	3-15 μ	S	Spec, Group freq	Roitt	JCS	- (1952)	2695
$C_{22}H_{16}O_2$	1-Carbomethoxytritycene	2-12 μ	Sol	Spec, Struct	Bartlett	JACS	76 (1954)	1088
$C_{22}H_{16}O_2$	4-Hydroxy-2,3,4-triphenyl-crotonic acid lactone	-	Sol	Group freq	Yates	JACS	76 (1954)	5110
$C_{22}H_{16}O_2$	cis-Phenylidibenzoyl-ethylene	6.06-14.65 μ	S	Group freq	Kuhn	JACS	72 (1950)	5058
$C_{22}H_{16}O_2$	trans-Phenylidibenzoyl-ethylene	6.08-14.4 μ	S	Group freq	Kuhn	JACS	72 (1950)	5058
$C_{22}H_{16}O_3$	9-Benzoyloxy-10-methoxy-phenanthrene	-	-	Group freq, Assign, Struct	Moore	JCS	- (1953)	238
$C_{22}H_{16}O_3$	1-Carbomethoxy-2-hydroxy-tritycene	2-12 μ	Sol	Spec, Struct	Bartlett	JACS	76 (1954)	1088
$C_{22}H_{16}O_3$	2-Phenyl-3-benzoxindone	-	-	Spec	Bergmann	BSCF	- (1959)	634
$C_{22}H_{16}O_4$	1-Carbomethoxytritycene-hydroquinone	2-12 μ	Sol	Spec, Struct	Bartlett	JACS	76 (1954)	1088
$C_{22}H_{16}O_6$	2,5-Diacetoxy-3,6-diphenyl-1,4-benzoquinone	5-15 μ	S	Spec, Struct	Edwards	JAPC	10 (1960)	246
$C_{22}H_{16}O_6$	1,6-Dihydroxy-1,6-di-p-methoxyphenyl-1,3,5-hexatriene-cis,3,4-dioic bislactone	2-15.5 μ	S	Spec, Struct, Group freq	Klingsberg	CR	54 (1954)	59
$C_{22}H_{17}ClN_2O_4S_2$	2-Chloro-1,4-naphthalene dibenzenesulfonamide	-	-	Spec, Ident	Adams	JACS	74 (1952)	5560
$C_{22}H_{17}NO$	3-Hydroxy-1,2,4-triphenyl-pyrrole	-	-	Ident	Wasserman	JACS	76 (1954)	5811
$C_{22}H_{17}N_2O_4S_2$	2-Azido-1,4-naphthalene dibenzenesulfonamide	-	-	Group study	Adams	JACS	74 (1952)	5560

$C_{22}H_{18}N_2O_2$	770-5000	S	Spec	Curtin	JACS	72 (1950)	5238
1,3,6-Triphenyl-1,4-dihydropyridazine							
$C_{22}H_{18}N_2O_2$	-	S	Group freq	Noland	JACS	81 (1959)	1203
2-Phenyl-3-(1-phenyl-2-nitroethyl) indole							
$C_{22}H_{18}N_2O_3$	700-4000	Sol	Spec, Freq	Adelfang	JACS	82 (1960)	4241
N-Benzyl-2-benzoyl-3-m-nitrophenyl-azacyclopropane							
$C_{22}H_{18}N_2O_4S_2$	-	-	Group study	Adams	JACS	74 (1952)	2603
5,8-Dihydro-1,4-naphthoquinonedibenzene-sulfonimide							
$C_{22}H_{18}N_2O_5$	700-1500	S	Group freq	Briggs	AC	29 (1957)	904
N-(6-Amino-3,4-methylene-dioxybenzoyl)-p-methylaminophenyl benzoate							
$C_{22}H_{18}N_2O_5S_2$	-	-	Group study	Adams	JACS	74 (1952)	5560
2-Hydroxy-1,4-naphthalene dibenzenesulfonamide							
$C_{22}H_{18}N_4O_2S$	600-4000	S	Spec, Ident	Epp	AC	29 (1957)	1283
5-p-Hydroxybenzyl-3-(phenyl-p-azophenyl)-2-thiohydantoin							
$C_{22}H_{18}N_4O_5$	-	S	Group freq	House	JACS	76 (1954)	1235
1,2-Diphenyl-2-methyl-1,3-propanedione-2,4-dinitrophenylhydrazone							
$C_{22}H_{18}N_4O_5$	-	-	Ident	House	JACS	76 (1954)	1235
cis-Dypnone oxide-2,4-dinitrophenylhydrazone							
$C_{22}H_{18}N_4O_5$	-	-	Ident	House	JACS	76 (1954)	1235
trans-Dypnone oxide-2,4-dinitrophenylhydrazone							
$C_{22}H_{18}N_6O_{12}$	-	S	Group freq, I	Boyer	JACS	77 (1955)	4238
Bis-(2,4,6-trimethyl-3,5-dinitrobenzoyl)-furoxan							
$C_{22}H_{18}O$	-	-	Struct, Ident	Marvel	JOC	16 (1951)	741
Benzhydryl styryl ketone							

$C_{22}H_{18}O$	1-(2-Biphenyl)-1,2-oxa-3,4-dihydro-naphthalene	2-12 μ	Sol	Spec	Weisenborn	JACS	74 (1952)	1329
$C_{22}H_{18}O$	1-(2-Biphenyl)-2-tetralone	2-12 μ	Sol	Spec	Weisenborn	JACS	74 (1952)	1329
$C_{22}H_{18}O$	3,4-Dihydro-2,3-diphenyl-1(2H)-naphthalenone	2-15.4 μ	S	Spec	Crawford	AC	28 (1956)	1077
$C_{22}H_{18}O$	2,2,3-Triphenylcyclobutanone	-	-	Ident, Struct	Marvel	JOC	16 (1951)	741
$C_{22}H_{18}O_2$	1,1'-Dimeθοoxy-2,2'-binaphthyl	-	-	Ident	Edwards	JACS	76 (1954)	6141
$C_{22}H_{18}O_2$	1,4'-Dimeθοoxy-1',2'-binaphthyl	-	-	Ident	Edwards	JACS	76 (1954)	6141
$C_{22}H_{18}O_2$	9-Hydroxy-10-p-methylbenzyl-oxyphenanthrene	-	-	Group freq	Moore	JCS	- (1953)	3405
$C_{22}H_{18}O_4$	3,3-Bis(3'-methyl-4'-hydroxyphenyl)-phthalide	330-2000	S	Freq	Jakobsen	APS	14 (1960)	61
$C_{22}H_{18}O_6$	Ethyl pulvinate acetate	650-3800	-	Spec	Frank	JACS	72 (1950)	1824
$C_{22}H_{18}O_7$	Dehydroanhydro-picropodophyllin	-	-	Ident	Shrecker	JACS	74 (1952)	5672
$C_{22}H_{18}O_8$	Dehydrodopodophyllotoxin	-	-	Freq	Gensler	JACS	77 (1955)	3674
$C_{22}H_{18}O_{12}$	Oosporein tetraacetate	-	-	Ident	Lloyd	JCS	- (1955)	2163
$C_{22}H_{19}BrO$	1-Bromo-5-mesityl-acenaphthene	-	-	Ident	Fuson	JOC	19 (1954)	806
$C_{22}H_{19}ClN_2O_4S_2$	2-Chloro-5,8-dihydro-1,4-naphthalene dibenzene-sulfonamide	-	S	Group freq	Adams	JACS	76 (1954)	2408

$C_{22}H_{19}NO$	1-Benzyl-2-phenyl-3-benzylaziridine	652-3050	-	Table	Cromwell	JACS	71 (1949)	3337
$C_{22}H_{19}NO$	N-Benzyl-2-benzoyl-3-phenylazacyclopropane	700-4000	Sol	Spec, Freq	Adelfang	JACS	82 (1960)	4241
$C_{22}H_{19}NO$	cis-1-Benzyl-2-phenyl-3-benzoylthyleneimine	2-16 μ	S, Sol	Spec, Group freq	Cromwell	JACS	73 (1951)	1044
$C_{22}H_{19}NO$	trans-1-Benzyl-2-phenyl-3-benzoylthyleneimine	2-16 μ	S, Sol	Spec, Group freq	Cromwell	JACS	73 (1951)	1044
$C_{22}H_{19}NO$	2,2-Dibenzyl- ψ -indoxyl	2-11 μ	Sol	Spec	Witkop	JACS	73 (1951)	5664
$C_{22}H_{19}NO$	3,3-Dibenzyl- ψ -oxindole	2-11 μ	Sol	Spec	Witkop	JACS	73 (1951)	5664
$C_{22}H_{19}NO$	1,3-Diphenyl-3-benzyl-amino-2-propen-1-one	650-3800	S	Chart, Table	Cromwell	JACS	71 (1949)	3337
$C_{22}H_{19}NO$	cis-1-Methyl-2-phenyl-3-(p-phenyl benzoyl) ethyleneimine	1145-3070	S	Freq, I	Cromwell	JOC	17 (1952)	414
$C_{22}H_{19}NO$	trans-1-Methyl-2-phenyl-3-(p-phenyl benzoyl) ethyleneimine	1118-3045	S	Freq, I	Cromwell	JOC	17 (1952)	414
$C_{22}H_{19}NO_2$	4-Anilino-2,3-epoxy-3-phenylbutyrophenone	- 2-15 μ	- Sol	Group freq Spec, Group freq	Wasserman Wasserman	JACS JOC	76 (1954) 19 (1954)	5811 515
$C_{22}H_{19}NO_6$	2,3-Dimethoxy-9-benzoyl-aminobenzosuber-5-ene-5,6-dicarboxylic anhydride	-	Sol	Group freq	Koo	JACS	75 (1953)	723
$C_{22}H_{19}NO_3$	Alstoniline	-	-	Group freq, Struct	Elderfield	JOC	19 (1954)	683
$C_{22}H_{19}NO_3$	2-Amino-1,4-naphthalene dibenzeneulfonamide	-	-	Group study	Adams	JACS	74 (1952)	5560
$C_{22}H_{30}$	Diphenyldecapentaene	660-2030	S	Spec	Cannon	SA	4 (1951)	373

$C_{22}H_{20}$	5,6,9,10-Tetramethyl-1,2-Benzanthracene	650-2020	S	Spec	Cannon	SA	4 (1951)	373
$C_{22}H_{18}BrN_2O_4$	Bi-s-(2,4,6-trimethyl-3-bromobenzoyl) furoxan	-	S	Group freq, I	Boyer	JACS	77 (1955)	4238
$C_{22}H_{20}N_2$	1,5-Di-phenyl-3-p-tolyl-2-pyrazoline	678-3060	-	Table Group freq, Band freq	Cromwell Snyder	JACS JACS	71 (1949) 74 (1952)	3337 3243
$C_{22}H_{20}N_2$	1-Phenyl-1,2,1',2',3',4'-hexahydroquinolino-3':2'-3:4-quinoline	1450-3700	S	Spec, Struct	Mann	JCS	- (1949)	2816
$C_{22}H_{20}N_2$	2-Phenyl-3-(1-phenyl-2-aminoethyl)-indole	-	S,Sol	Group freq	Noland	JACS	81 (1959)	1203
$C_{22}H_{20}N_2O$	Bi-s-(N-benzyl)phthalamide	700-1700	S	Spec	Stafford	AC	21 (1949)	1454
$C_{22}H_{20}N_2O_2$	9,10-Di(2-cyano-2-propoxy) phenanthrene	-	-	Group freq	Aparicio	JCS	- (1952)	4666
$C_{22}H_{20}N_2O_2$	1,2-Di-(6-methylquinolyl-2)-1,2-ethanediol	-	-	Band freq	Buehler	JACS	74 (1952)	977
$C_{22}H_{20}N_2O_2$	7- α -Furyl-2,4,6-hepta-trienalazine	1400-2000	S	Spec	Blout	JACS	70 (1948)	194
$C_{22}H_{20}N_2O_6$	Terrarubein	-	S	Group freq	Hochstein	JACS	75 (1953)	5455
$C_{22}H_{20}N_2O_3S_2$	2(3)-Imino-3-benzyl-4-amino-5-phenylthiazoline benzenesulfonate	650-4000	S	Spec	Taylor	JACS	76 (1954)	1866
$C_{22}H_{20}N_2O_4S$	N-(Phenyl-p-azophenyl) thiocarbonyl-dl-phenyl-alanine	600-4000	S	Spec	Epp	AC	29 (1957)	1283
$C_{22}H_{20}O$	1-Methoxy-trans-1,2,3-triphenyl-2-propene	-	-	Group study	Lutz	JACS	77 (1955)	366
$C_{22}H_{20}O_2S$	9-(9-Ethylfluorenyl)-p-tolyl sulfone	1100-1400	Sol	Spec, Freq	Bavin	SA	16 (1960)	1312

$C_{22}H_{20}O_7$	α -Apopicropodophyllin	2-12 μ	Sol	Spec, Struct	Shrecker	JACS	74 (1952)	5676
$C_{22}H_{20}O_7$	β -Apopicropodophyllin	2-12 μ	Sol	Spec, Struct Ident	Shrecker Gensler	JACS	74 (1952) 76 (1954)	5676 315
$C_{22}H_{20}O_7$	γ -Apopicropodophyllin	2-12 μ	Sol	Spec, Struct	Shrecker	JACS	74 (1952)	5676
$C_{22}H_{20}O_8$	2,3-Dicarboxy-1-(3',4',5'-trimeoxyphenyl)-6,7-methylenedioxy tetralin anhydride	-	Sol	Group freq	Walker	JACS	75 (1953)	3390
$C_{22}H_{20}O_8$	α -(3,4-Methylenedioxybenzyl)-2'-(3,4,5-trimeoxybenzylidene)-succinic anhydride	-	Sol	Group freq	Walker	JACS	75 (1953)	6205
$C_{22}H_{20}O_8$	Picropodophyllone	-	-	Freq	Gensler	JACS	77 (1955)	3674
$C_{22}H_{20}O_8$	Podophyllotoxone	-	-	Group freq	Gensler	JACS	77 (1955)	3674
$C_{22}H_{21}Br$	Bromotribenzylmethane	-	Sol	Band freq	Pinchas	JCS	- (1954)	863
$C_{22}H_{21}Cl$	4-Chloro-1,1,1-triphenylbutane	-	Sol	Group freq, I	Pinchas	JCS	- (1954)	863
$C_{22}H_{21}Cl$	Chloro-tri-p-tolyl-methane	600-3400	S	Spec	Sharp	JCS	- (1957)	4804
$C_{22}H_{21}ClN_2O_7$	Anhydroaureomycin	-	-	Band freq	Waller	JACS	74 (1952)	4981
$C_{22}H_{21}ClN_2O_7$	Aureomycinonitrile	-	S	Group freq	Stephens	JACS	76 (1954)	3568
$C_{22}H_{21}ClN_2O_7S$	6-Amino-4-triacetyl-D-ribofuranosamino-5-(2',5'-dichlorobenzene-azo)-2-methylthiopyrimidine	1700-1775	S	Spec, H bond	Brownlie	JCS	- (1948)	2265
$C_{22}H_{21}ClN_2O_7S$	6-Amino-4-triacetyl-L-arabopyranosamino-5-(2',5'-dichlorobenzeneazo)-2-methylthiopyrimidine	1700-1775	S	Spec, H bond	Brownlie	JCS	- (1948)	2265

$C_{22}H_{21}NO$	N-Dimethyl-o-benz- hydrylbenzamide	3 μ	Sol	Spec	Marvel	JACS 63 (1941)	2221
$C_{22}H_{21}NO$	N-Dimethyl-p-benzhydryl- benzamide	3 μ	Sol	Spec	Marvel	JACS 63 (1941)	2221
$C_{22}H_{21}NO_3$	Ethyl- β -(2-quinoly)- ethylbenzoyl acetate	-	-	Group freq	Boekelheide	JACS 73 (1951)	4015
$C_{22}H_{21}NO_3$	1,4,5,8-Tetrahydro- 1,4,5,8-dimethano- 9,10-anthraquinone- monobenzenesulfonimide	-	-	Group study	Adams	JACS 74 (1952)	2605
$C_{22}H_{21}NO_4$	5-Methyl-2,3,10,11-tetra- methoxybenzo [a]- phenanthridine	-	Sol	Band freq	Walker	JACS 76 (1954)	3999
$C_{22}H_{21}ClN_2O_9$	Auremycinic acid	-	-	Band freq	Hutchings	JACS 74 (1952)	4980
$C_{22}H_{22}N_2O_2$	2-Phenyl-4-ethyl- oxazolidine α -naphthyl- urea	-	S	Group freq, Struct	Goldberg	JACS 75 (1953)	6260
$C_{22}H_{22}N_2O_2 \cdot$ 2HBr	5-Benzoyl-7-(1-piperidyl- methyl)-8-quinolinol dihydrobromide	-	-	Struct	Edgerton	JACS 74 (1952)	5209
$C_{22}H_{22}N_2O \cdot$ HCl.2H ₂ O	Strychnine hydrochloride dihydrate	2.8 μ	S	Spec	Nakanishi	BCSJ 30 (1957)	403
$C_{22}H_{22}N_2O_4$	Dimesitylfuroxan	-	S	Group freq, I	Poyer	JACS 77 (1955)	4238
$C_{22}H_{22}N_2O_8$	α and β -Apoterramycin	-	-	Struct	Hochstein	JACS 74 (1952)	3708
		-	S, Sol	Band freq, Group freq	Hochstein	JACS 75 (1953)	5455
$C_{22}H_{22}O$	Mesityl-1-ethyl-2-naphthyl ketone	-	-	Anal	Fuson	JOC 16 (1951)	643
$C_{22}H_{22}O$	Tribenzylmethanol	-	Sol	Band freq	Pinchas	JCS - (1954)	863
		-	-	Spec	Michinori	BCSJ 33 (1960)	1600

$C_{22}H_{22}O$	Sol	Group freq, I	Pinchas	JCS	-	(1954)	863
1,1,1-Triphenylethyl ether	-	Group freq, I	Pinchas	JCS	-	(1954)	863
$C_{22}H_{22}O_2$	Sol	Band freq, I	Fuson	JACS	75	(1953)	5952
1-Mesityl-7-phenyl-2,4,6-heptatrien-2-ol-1-one	-	Spec, Struct	Zimmerman	JACS	76	(1954)	2291
$C_{22}H_{22}O_2$	-	Spec, Struct	Zimmerman	JACS	76	(1954)	2291
α -2-Methyl-1,1,3-triphenyl-1,3-propanediol	-	Group freq	Fuson	JACS	75	(1953)	5952
β -2-Methyl-1,1,3-triphenyl-1,3-propanediol	-	Group freq	Fuson	JACS	75	(1953)	5952
1-Mesityl-5-phenyl-2,4-pentadien-2-ol-1-one acetate	-	Group freq	Fuson	JACS	75	(1953)	5952
Adipoyldiacetophenone	S	Freq, Assign, Struct	Martin	JACS	80	(1958)	4891
3,4-Bis-(p-acetoxyphenyl)-2,4-hexadiene	-	Band freq, Spec	Lane	JACS	73	(1951)	4408
Tri-p-anisylcarbinol	L,S	Group freq	Zeiss	JACS	75	(1953)	897
Triansylcarbinol	Sol	Ident, Band freq	Buckles	JACS	82	(1960)	2444
Tris-(o-methoxyphenyl)-carbinol	-	Ident	Marton	JACS	76	(1954)	2973
1-(3',4'-Dimethoxyphenyl)-2-carboxy-3-hydroxy-methyl-6,7-dimethoxy-1,4-dihydronaphthalene lactone	-	Band freq	Walker	JACS	75	(1953)	3393
Desoxypicropodophyllin	Sol	Spec, Group freq	Shrecker	JACS	75	(1953)	5916
Isodesoxypicropodophyllin	-	Ident	Hartwell	JACS	76	(1954)	4034
Desoxyphyllotoxin	Sol	Spec, Group freq	Shrecker	JACS	75	(1953)	5916
Desoxyphyllotoxin	Sol	Spec, Ident, Struct	Hartwell	JACS	74	(1952)	4470
Desoxyphyllotoxin	-	Ident	Hartwell	JACS	75	(1953)	2138

$C_{22}H_{22}O_7$	Isodesoxydopodophyllo- toxin	2-13 μ	Sol	Spec, Group freq Ident	Shrecker Hartwell	JACS JACS	75 (1953) 76 (1954)	5916 4034
$C_{22}H_{22}O_7$	2-(4,6-Dimethoxy-5-methyl -3-coumaronyl)-4,6- dimethoxy-5-methyl- coumaran-3-one	2-13 μ	Sol	Spec, Group freq	Shrecker	JACS	75 (1953)	5916
$C_{22}H_{22}O_7$	2-(4,6-Dimethoxy-5-methyl -3-coumaronyl)-4,6- dimethoxy-5-methyl- coumaran-3-one	-	-	Group freq	Mulholland	JCS	- (1953)	1642
$C_{22}H_{22}O_7$	6,7-Methylenedioxy-1- (3,4,5-trimethoxyphenyl) -3-hydroxyethyl-5,6,7,8- tetrahydro-2-naphthoic acid lactone	2-13 μ	Sol	Spec	Shrecker	JACS	75 (1953)	5916
$C_{22}H_{22}O_8$	dL- α -Apodophyllinic acid	-	-	Ident	Gensler	JACS	76 (1954)	5890
$C_{22}H_{22}O_8$	3-Carbomethoxy-4-(3',4',5'- trimethoxyphenyl)-6,7- methylenedioxy-1- tetralone	-	Sol	Group freq	Walker	JACS	75 (1953)	3390
$C_{22}H_{22}O_8$	Epipicrodopodophyllin	-	Sol	Group freq	Shrecker	JACS	75 (1953)	5916
$C_{22}H_{22}O_8$	Epipodophyllotoxin	-	Sol	Group freq	Shrecker	JACS	75 (1953)	5916
$C_{22}H_{22}O_8$	2-Hydroxymethylene-3- carboxy-4-(3',4'-dimethoxy- phenyl)-6,7-dimethoxy-1- tetralone	-	-	Band freq	Walker	JACS	75 (1953)	3393
$C_{22}H_{22}O_8$	β -Pelletin-A-methyl ether	2-12 μ	Sol	Spec	Hartwell	JACS	74 (1952)	6285
$C_{22}H_{22}O_8$	Picrodopodophyllin	-	Sol	Group freq Band freq	Shrecker Wildman	JACS JACS	75 (1953) 77 (1955)	5916 1248

$C_{22}H_{22}O_8$	Podophyllotoxin	-	Sol	Group freq	Shrecker	JACS	75 (1953)	5916
		-	S	Band freq	Wildman	JACS	77 (1955)	1248
		700-5000	S	Group freq	Briggs	AC	29 (1957)	904
$C_{22}H_{22}O_9$	α -(3,4-Methylenedioxybenzyl)- α -(3,4,5-trimethoxybenzylidene)succinic acid	-	Sol	Group freq	Walker	JACS	76 (1954)	6205
$C_{22}H_{23}ClN_2O_8$	Aureomycin	-	-	Band freq	Waller	JACS	74 (1952)	4981
		-	-	Band freq	Waller	JACS	74 (1952)	4981
		1-12.5 μ	Sol	Spec, Assign	Lacher	JPC	59 (1955)	610
$C_{22}H_{23}ClN_2O_8 \cdot HCl$	Aureomycin hydrochloride	1-12.5 μ	Sol	Spec, Assign	Lacher	JPC	59 (1955)	610
$C_{22}H_{23}ClN_2O_8$	Isoaureomycin	-	-	Band freq	Waller	JACS	74 (1952)	4981
$C_{22}H_{23}NO$	1-Methyl-3,5-di-(<i>o</i> -methylbenzylidene)-4-piperidone	-	S	Group freq	Leonard	JACS	77 (1955)	1852
$C_{22}H_{23}NO$	1-Methyl-3,5-di-(<i>p</i> -methylbenzylidene)-4-piperidone	-	S	Group freq	Leonard	JACS	77 (1955)	1852
$C_{22}H_{23}NO$	1-Methyl-3,5-di-(<i>p</i> -methylbenzyl)-4-pyridone	-	S	Group freq	Leonard	JACS	77 (1955)	1852
$C_{22}H_{23}NO_3$	1-Methyl-3,5-di-(<i>p</i> -methoxybenzylidene)-4-piperidone	-	S	Group freq	Leonard	JACS	77 (1955)	1852
$C_{22}H_{23}NO_3$	1-Methyl-3,5-di-(<i>p</i> -methoxybenzyl)-4-pyridone	-	S	Group freq	Leonard	JACS	77 (1955)	1852
$C_{22}H_{23}NO_3S$	<i>N</i> - <i>p</i> -Diphenyl- <i>N</i> -2'-methoxyethyltoluene- <i>p</i> -sulfonamide	-	S, Sol	Group freq	Baxter	JCS	- (1955)	669
$C_{22}H_{23}N_2O_2$	1,1-Bis-[1',2'-methyl-1',2'-dihydroisoquinoly]nitroethane	-	-	Ident	Leonard	JACS	71 (1949)	3405
$C_{22}H_{23}NO_3S$	2-Morpholino- <i>p</i> -phenylene dibenzenesulfonamide	-	-	Ident, Spec	Adams	JACS	74 (1952)	2597

$C_{22}H_{24}NO_3P$	Dibenzyl 2-phenylethyl aminophosphate	-	S, Sol	Group freq	Bellamy Bell	JCS JACS	- 76 (1952) 76 (1954)	1701 5185
$C_{22}H_{24}N_2O \cdot 2HBr$	5-Benzyl-7-(1-piperidyl-methyl)-8-quinolinol dihydrobromide	-	-	Struct	Edgerton	JACS	74 (1952)	5209
$C_2H_5NO_2$	Vomicine	-	Sol	Band freq	Ek	JACS	76 (1954)	5579
$C_{22}H_{24}N_2O_8$	Tetracycline	-	-	Band freq, H bond	Witkop	JACS	76 (1954)	5603
$C_{22}H_{24}N_2O_9$	Terramycin	1-12.5 μ	Sol	Spec, Assign	Lacher	JPC	59 (1955)	610
$C_{22}H_{24}N_2O_9 \cdot 2H_2O$	Terramycin dihydrate	-	-	Struct	Hochstein	JACS	74 (1952)	3708
$C_{22}H_{24}N_2O_9 \cdot HCl$	Terramycin hydrochloride	2-16 μ	S	Struct	Hochstein	JACS	75 (1953)	5455
$C_{22}H_{24}N_2O_5$	1,4-(5',6'-Diketodeca-methylene) benzene mono-2,4-dinitrophenyl-hydrazone	1-12.5 μ	Sol	Spec, Assign	Lacher	JPC	59 (1955)	610
$C_{22}H_{24}NO_5$	Triphenylsilylethyl ether	2-16 μ	S	Spec	Regna	JACS	73 (1951)	4211
$C_{22}H_{24}OSi$	Triphenylsilylethyl ether	2-16 μ	S	Spec	Regna	JACS	73 (1951)	4211
$C_{22}H_{24}OSi$	Triphenylsilylpropyl methyl ether	1-12.5 μ	Sol	Spec, Assign	Lacher	JPC	59 (1955)	610
$C_{22}H_{24}O_3$	Ethyl β -duroyl- β -phenyl acrylate	-	-	Group freq	Cram	JACS	76 (1954)	2743
$C_{22}H_{24}O_4$	α -Dihydroequilenin diacetate	-	-	Inductive effect	Josien	CPR	249 (1959)	826
$C_{22}H_{24}O_4$	β -Dihydroequilenin diacetate	-	-	Inductive effect	Josien	CPR	249 (1959)	826
$C_{22}H_{24}O_4$	β -Dihydroequilenin diacetate	700-1400	Sol	Group freq, I	Fuson	JACS	74 (1952)	1629
$C_{22}H_{24}O_4$	β -Dihydroequilenin diacetate	-	-	Spec, Band freq	Scheer	JACS	77 (1955)	3300
$C_{22}H_{24}O_4$	β -Dihydroequilenin diacetate	-	Sol	Band freq	Scheer	JACS	77 (1955)	3300

C ₂₂ H ₂₄ O ₅	2-13 μ	Sol	Spec	Lane	JACS	73 (1951)	4408
4,4'-Bis-(p-acetoxy-phenyl)-3-hexanone							
C ₂₂ H ₂₄ O ₆	-	Sol	Band freq	Walker	JACS	75 (1953)	3393
1-(3',4'-Dime thoxyphenyl)-2-carboxy-3-hydroxy-methyl 6,7-dime thoxy-tetralin lactone							
C ₂₂ H ₂₄ O ₇	2-13 μ	S	Spec	Shrecker	JACS	75 (1953)	5916
6,7-Methylenedioxy-1-(3,4,5-trimethoxyphenyl)-3-methyl-1,2,3,4-tetrahydro-2-naphthoic acid							
C ₂₂ H ₂₄ O ₈	2-13 μ	S	Spec	Shrecker	JACS	75 (1953)	5916
Desoxypodophyllic acid							
C ₂₂ H ₂₄ O ₈	2-13 μ	S	Spec	Shrecker	JACS	75 (1953)	5916
Isodesoxypodophyllic acid							
C ₂₂ H ₂₄ O ₈	-	-	Group freq	Drake	JACS	77 (1955)	1204
α-(3,4,5-Trimethoxybenzyl)β-(α'-hydroxy-3,4-methylenedioxybenzyl) butyrolactone							
C ₂₂ H ₂₄ O ₈	-	-	Band freq	Drake	JACS	77 (1955)	1204
α-(3,4,5-Trimethoxybenzyl)β-(3',4'-methylene-dioxybenzoyl)-butyric acid							
C ₂₂ H ₂₄ O ₉	-	S	Group freq	Walker	JACS	76 (1954)	6205
α-(3,4-Methylenedioxybenzyl)-α-(3,4,5-trimethoxybenzyl)-succinic acid							
C ₂₂ H ₂₄ Si	2-16 μ	Sol	Group freq	Kniseley	SA	15 (1959)	651
Diphenyl-p-tert-butyl-phenylsilane							
C ₂₂ H ₂₅ IO ₃	-	Sol	Band freq	Djerassi	JACS	76 (1954)	1722
3-Acetoxy-17-(iodoacetyl)-Δ ^{1,3,5} (10),16-estra tetraene							

$C_{22}H_{25}NO$	1-Cyclohexyl- <i>cis</i> -2-methyl- <i>β</i> -(<i>p</i> -phenylbenzyl) ethylenimine	650-4000	S, Sol	Group freq, I	Cromwell	JACS 75 (1953)	6252
$C_{22}H_{25}NO$	1-Cyclohexyl- <i>trans</i> -2-methyl- <i>β</i> -(<i>p</i> -phenylbenzyl) ethylenimine	650-4000	S, Sol	Group freq, I	Cromwell	JACS 75 (1953)	6252
$C_{22}H_{25}NO$	<i>cis</i> -1-cyclohexyl-2-phenyl- <i>β</i> - <i>p</i> -toluylethylenimine	2-16 μ	S, Sol	Spec, Group freq	Cromwell	JACS 73 (1951)	1044
$C_{22}H_{25}NO$	<i>trans</i> -1-cyclohexyl-2-phenyl- <i>β</i> - <i>p</i> -toluylethylenimine	2-16 μ	S, Sol	Spec, Group freq	Cromwell	JACS 73 (1951)	1044
$C_{22}H_{25}NO$	β -Mesityl- α -mesitylpropionitrile	-	-	Group freq	Fuson	JACS 74 (1952)	1631
$C_{22}H_{25}NO_2$	(2,4-Dioxo- β , β -diphenylcyclobutyl)-triethylammoniumbetaine	0-15 μ	S	Spec, Band freq	Prueh	JACS 74 (1952)	1633
$C_{22}H_{25}NO_4$	Anacyclin maleic anhydride adduct	-	S	Freq	Crombie	JCS - (1955)	999
$C_{22}H_{25}NO_4$	5-Methyl-2,3,10,11-tetramethoxy-7,8,15,16-tetrahydrobenzo [a] phenanthridine	-	Sol	Band freq	Walker	JACS 76 (1954)	3999
$C_{22}H_{25}NO_6$	Colchicine	1250-1800 6.75-7.25 μ	Sol	Struct, Spec Spec	Scott Horowitz	JACS 72 (1950) JACS 74 (1952)	240 587
$C_{22}H_{25}NO_6$	Isocolchicine	6.75-7.25 μ	Sol, L Sol	Spec Spec	Horowitz Raffauf	JACS 74 (1952) JACS 76 (1954)	587 1707
$C_{22}H_{26}$	9-Octylphenanthrene	2-15 μ	-	Struct, Ident	Cagniant	BSCF - (1957)	1403
$C_{22}H_{26}NO_3$	Pseudoakummgene	-	S	Group freq, Band freq	Robinson	JCS - (1954)	3522
$C_{22}H_{26}NO_3$	Akuammigol acetate	-	S	Group freq, Band freq	Robinson	JCS - (1954)	3479

Chemical Formula	Compound Name	S	Band freq, Group freq	Robinson	JCS	Year	Reference
$C_{22}H_{26}N_2O_3 \cdot H_2O$	Akuamigol acetate monohydrate	-	-	Robinson	JCS	(1954)	3479
$C_{22}H_{26}N_2O_4$	Aricine	-	-	Hochstein	JACS	(1955)	3551
$C_{22}H_{26}N_2O_4 \cdot HCl$	Tetrahydro reserpinediol hydrochloride	S	-	MacPhillamy	JACS	(1955)	4335
$C_{22}H_{26}N_4$	Calycanthine	Sol	2900-3100	Hill	JCS	(1958)	760
$C_{22}H_{26}O$	α -(n-Butylbenzalacetone) mesitylene	-	-	Fuson	JOC	(1953)	1263
$C_{22}H_{26}O_2$	Sym-di-(p-carbethoxy-trimethylenephényl) ethane cyclicacyloin	-	-	Fuson	JACS	(1952)	1621
$C_{22}H_{26}O_2$	1,4-Di-(2-hydroxy-3,4,6-trimethylphenyl)-1,3-butadiene	-	-	Smith	JACS	(1951)	3851
$C_{22}H_{26}O_2S_2$	Diphenyldithio sebacate	Sol	2.5-16 μ	Nyquist	SA	(1959)	514
$C_{22}H_{26}O_3$	17-Acetyl- $\Delta^{1,3,5(10),16}$ estratetraene-3-ol-acetate	Sol	700-1400	Jones	JACS	(1956)	1152
$C_{22}H_{26}O_3$	Ethyl β -duroyl- β -phenyl propionate	-	-	Fuson	JACS	(1952)	1629
$C_{22}H_{26}O_3$	$\Delta^{1,3,5,10}$ -17-Ethynyl-estratrienediol-3,17-acetate	Sol	-	Jones	JACS	(1950)	956
		Sol	-	Jones	JACS	(1952)	2820

$C_{22}H_{26}O_4$	1,4-Di-(2-hydroxy-3,4,5-trimethylphenyl)butane 1,4-dione	-	-	Band freq, Spec, Struct	Smith	JACS 73 (1951)	3847
$C_{22}H_{26}O_4$	1,4-Di-(2-hydroxy-3,4,6-trimethylphenyl)-butane-1,4-dione	-	-	Band freq, Spec, Struct	Smith	JACS 73 (1951)	3847
$C_{22}H_{26}O_4$	Ethyl β -duroyl- β -hydroxy- β -phenylpropionate	-	-	Group freq	Fuson	JACS 73 (1951)	1629
$C_{22}H_{26}O_6$	1-(3',4'-Dimethoxy-2phenyl) 2-carboxy-3-methyl-6,7-dimethoxytetralin	-	-	Band freq	Walker	JACS 75 (1953)	3393
$C_{22}H_{26}O_6$	$\Delta^{4,20}$ -17 α ,20,21-trihydroxy-3,11-diketopregnadiene-22-carboxy-17-lactone	-	-	Band freq	Leanza	JACS 76 (1954)	1691
$C_{22}H_{26}O_6S_2$	meso-3,4-Di-(5-acetoxy-acetyl-2-thienyl)hexane	3-14.5 μ	S	Band freq	Sice	JACS 75 (1953)	1628
$C_{22}H_{26}O_7$	Gibberellin A	-	Sol, S	Ident	Cross	JCS - (1954)	4670
$C_{22}H_{26}O_7$	Limonin	2-16 μ	S	Spec, Freq, Struct	Rosenfeld	JACS 73 (1951)	2491
$C_{22}H_{26}O_8$	Methyl acetylgibberellate	-	S	Group freq	Cross	JCS - (1954)	4670
$C_{22}H_{26}O_8$	2-Hydroxymethyl-3-carboxy-4-(3,4-dimethoxyphenyl)-6,7-dimethoxy-1-tetralol	-	S	Band freq	Walker	JACS 75 (1953)	3393
$C_{22}H_{26}O_8$	Triacetylelglaucanol	-	-	Group study	Ham	JACS 76 (1954)	6066

$C_{22}H_{27}NO_5$		Sol	Band freq	Walker	JACS	76 (1954)	3999
$C_{22}H_{28}$	1-(3',4'-Dimethoxyphenyl)-2-acetylamino-6,7-dimethoxytetralin	-	-	Walker	JACS	76 (1954)	3999
$C_{22}H_{28}O_2$	3,3-Dimesityl-1-butene	-	Group freq	Fuson	JACS	76 (1954)	499
$C_{22}H_{28}$	1,2,3,6-Tetramethyl-3-ethyl-1-p-tolylindan	7-15 μ L	Spec	Pines	JACS	72 (1950)	1563
$C_{22}H_{28}NO_2$	Aspidospermine	-	Group freq, I, Struct	Witkop	JACS	76 (1954)	5603
$C_{22}H_{28}NO_3$	O-Acetylhexahydroserpentinol	-	Group freq, Struct	Klohs	JACS	76 (1954)	1332
$C_{22}H_{28}NO_3$	Aspidospermine N ^b -oxide	2.71-11.27 μ Sol	Group freq, I	Witkop	JACS	76 (1954)	5603
$C_{22}H_{28}NO_3$	N-Methylchimbine	-	Group freq	Huebner	JACS	77 (1955)	469
$C_{22}H_{28}NO_3$	Strychnospermine	-	Group freq	Anet	JCS	- (1955)	2253
$C_{22}H_{28}NO_4 \cdot HNO_3$	Methyl canescate nitrate	S	Group freq	Klohs	JACS	77 (1955)	4084
$C_{22}H_{28}NO_5 \cdot HCl$	Reserpine acid hydrochloride	S	Struct Ident	Neuss Klohs	JACS JACS	76 (1954) 77 (1955)	2463 2241
$C_{22}H_{28}O$	1-Phenyl-1-mesityl-2,2-dimethylpenten-4-ol-1	-	Band freq, Spec	Geissman	JACS	73 (1951)	5759
$C_{22}H_{28}O_2$	p,p'-Bibenzyl-1,10-n-octane cyclodiether	-	Group freq	Fuson	JACS	75 (1953)	1325
$C_{22}H_{28}O_2$	1,8-Di-n-hexanoylnaphthalene	-	Band freq	Bannister	JCS	- (1951)	1061
$C_{22}H_{28}O_3$	3 β -Acetoxy-17-acetyl-5,7,9-estratriene	Sol	Band freq	Scheer	JACS	77 (1955)	3300
$C_{22}H_{28}O_4$	Dime thylrocetin (central-cis)	6.8-14 μ S,Sol	Spec, Band freq	Lunde	JACS	77 (1955)	1647

$C_{22}H_{28}O_4$	Dimethylcroceatin (all-trans)	6.8-14 μ	S, Sol	Spec, Band freq	Lunde	JACS	77 (1955)	1647
$C_{22}H_{28}O_4$	11 β -6-endo-Dimethyl-6-exo-hydroxy-9 α -acetoxy-2,3-(1'-methoxy-7',8'-dihydro-6',5'-naphtho)- Δ^2 -bicyclo[3.3.1]nonene	3100-3750	Sol	H bond	West	JOC	25 (1960)	1976
$C_{22}H_{28}O_4$	1 β ,6-endo-Dimethyl-6-exo-hydroxy-9 β -acetoxy-2,3-(1'-methoxy-7',8'-dihydro-6',5'-naphtho)- Δ^2 -bicyclo[3.3.1]nonene	3100-3750	Sol	H bond	West	JOC	25 (1960)	1976
$C_{22}H_{28}O_4$	Estradiol diacetate	-	Sol	Band freq	Scheer	JACS	77 (1955)	3300
$C_{22}H_{28}O_4$	17 β -Estradiol-16-C ¹⁴ -diacetate	-	-	Ident	Levitz	JACS	75 (1953)	5352
$C_{22}H_{28}O_4$	$\Delta^{1,3,5(10)}$ -Estratrien-3,17 α -diol diacetate	1698-1810	Sol	Assign Spec, Group study Group freq Band, Ident	Jones Jones Jones Jones	JACS JACS JACS JACS	70 (1948) 74 (1952) 74 (1952) 78 (1956)	2024 80 5648 1152
$C_{22}H_{28}O_4$	$\Delta^{1,3,5(10)}$ -Estratrien-3,17 β -diol diacetate	700-1400	Sol	Band freq, Ident	Jones	JACS	78 (1956)	1152
$C_{22}H_{28}O_4$	d1-5,7,9-Estratriene-3 β ,17 β -diol diacetate	720-1630	S, Sol	Band freq	Scheer	JACS	77 (1955)	3300
$C_{22}H_{28}O_4$	Galbulin	2-13 μ 2-15 μ	Sol S	Spec, Ident Group freq	Shrecker Briggs	JACS AC	77 (1955) 29 (1957)	432 904
$C_{22}H_{28}O_4$	Isogalbulin	2-15 μ	Sol	Spec	Schrecker	JACS	77 (1955)	432
$C_{22}H_{28}O_5$	Galgravin	2-15 μ	S	Group freq	Briggs	AC	29 (1957)	904
$C_{22}H_{28}O_6$	Isoquassin	650-3000	S	Spec, Struct, Ident	Adams	JACS	72 (1950)	375

$C_{22}H_{28}O_7$	Anhydrocedronylin	-	-	Group study	Polonsky	BSCF	- (1960)	1845
$C_{22}H_{28}O_7$	Ethyl- α -methyl- β -hydroxy- β -di-(3,4-dimethoxyphenyl)-propionate	-	-	Group freq	Walker	JACS	75 (1953)	3387
$C_{22}H_{29}BrO_2$	p-Hydroxy-p'-(ω -bromo-n-octyloxy)-bibenzyl	-	-	Freq	Fuson	JACS	75 (1953)	1325
$C_{22}H_{29}N$	4-Dimethylamino-2':5'-diisopropylstilbene	960	Sol	Band freq	Orr	SA	8 (1956)	218
$C_{22}H_{29}NO_2$	1,1-Diphenyl-1-(β -dieethylaminoethoxy)-2-butanone	-	-	Group freq, Ident	Kaufmann	JACS	76 (1954)	5794
$C_{22}H_{30}$	9-Octyl-1,2,3,4-tetrahydro-phenanthrene	2-15 μ	-	Struct, Ident	Cagniant	BSCF	- (1957)	1403
$C_{22}H_{30}$	1-p-Tolyl-1-(2-methyl-5-isobutylphenyl)-2-methylpropane	7-15 μ	L	Spec	Pines	JACS	72 (1950)	1563
$C_{22}H_{30}IN_2O$	N-Methyldeacetyleaspido-spermine methiodide	2.89-13.4 μ	S	Group freq, I, Ident	Witkop	JACS	76 (1954)	5603
$C_{22}H_{30}IN_2O$ HI.H ₂ O	N-Methyldeacetyleaspido-spermine methiodide hydrate	2.95-12.63 μ	S	Group freq, I	Witkop	JACS	76 (1954)	5603
$C_{22}H_{30}N_2$	p,p'-Diaminobibenzyl-N,N'-octamethylene	-	-	Group freq	Fuson	JACS	75 (1953)	1327
$C_{22}H_{30}N_2O$	1,1-Diphenyl-1-(β -dieethylaminoethoxy)-2-butanamine	-	-	Group freq, Ident	Kaufmann	JACS	76 (1954)	5794
$C_{22}H_{30}N_2O$	Ethyldeacetyle-aspidospermine	6.29-11.21 μ	Sol	Group freq, Ident	Witkop	JACS	76 (1954)	5603
$C_{22}H_{30}N_2O$	N-[2-(Ethylphenethylamino)propyl]propionamide	3.35-3.60 μ	S	Group freq	Wright	JOC	24 (1959)	1362

$C_{22}H_{30}N_2O_3$	Reserpinol	-	-	Ident	MacPhillamy	JACS	77 (1955)	4335
$C_{22}H_{30}N_2O_3$	3-Isoreserpinol	-	-	Ident	MacPhillamy	JACS	77 (1955)	4335
$C_{22}H_{30}N_2O_4$	Reserpilic alcohol	-	S	Struct	Neuss	JACS	76 (1954)	2463
$C_{22}H_{30}N_2O_4$	Reserpinediol	-	-	Ident	MacPhillamy	JACS	77 (1955)	4335
$C_{22}H_{30}N_2O_4$	3-Isoreserpinediol	-	-	Ident	MacPhillamy	JACS	77 (1955)	4335
$C_{22}H_{30}O_2$	2-t-Butyl-4-methoxy-2,3-dihydrophenyl duryl ketone	-	-	Group freq	Fuson	JACS	76 (1954)	5466
$C_{22}H_{30}O_2$	$\Delta^{13}(17a), 17(20)$ -3,5-Cyclo-17-ethyltiojervadien-6 β -ol-11-one 6-methyl ether	-	S	Band freq	Herz	JACS	76 (1954)	5621
$C_{22}H_{30}O_2$	1,4-Di-(2-hydroxy-3,4,6-trimethylphenyl)-butane	-	-	Spec, Band freq	Smith	JACS	73 (1951)	3847
$C_{22}H_{30}O_2$	$\Delta^{5,13}(17a), 17(20)$ -17-Ethyltiojervatrien-3 β -ol-11-one-3-methyl ether	-	S	Band freq	Herz	JACS	76 (1954)	5621
$C_{22}H_{30}O_2$	4-Keto-6-t-amy1-1-cyclohexenyl duryl ketone	-	-	Group freq	Fuson	JACS	76 (1954)	5466
$C_{22}H_{30}O_2$	Δ^4 -16,17-Methylene-pregnenedione-3,20	-	Sol	Band freq, Spec	Jones	JACS	74 (1952)	2820
$C_{22}H_{30}O_2S$	4,4-Thiobis(6-t-butyl-m-cresol)	-	-	Group study	Spell	AC	32 (1960)	1811
$C_{22}H_{30}O_2S_2$	Di-(2-hydroxy-3-t-butyl-5-methylphenyl) disulphide	-	L, Sol, S	Struct, Assign	Binder	JACS	81 (1959)	3608

$C_{22}H_{30}O_2S_2$		S, Sol, L	Struct, Assign	Binder	JACS	81 (1959)	3608
$C_{22}H_{30}O_3$	D,L-(4-hydroxy-2-methyl-5-t-butylphenyl) disulphide	-			JACS	81 (1959)	3608
$C_{22}H_{30}O_3$	3 β -Formoxy- $\Delta^{5,16}$ -pregnadien-20-one	-	Group freq	Hirschmann	JOC	20 (1955)	572
$C_{22}H_{30}O_3$	Methyl- α -(3 β -hydroxy-5,7,9-estra-17-yl)propionate	Sol Sol	Group freq Band freq	Mose ttig Scheer	JOC JACS	17 (1952) 77 (1955)	764 3300
$C_{22}H_{30}O_4$	1-Dihydroguaiaietic acid dimethyl ether	Sol	Spec	Schrecker	JACS	77 (1955)	432
$C_{22}H_{30}O_4$	1,4-Di-(2-hydroxy-3,4,6-trimethylphenyl)-butane -1,4-diol	-	Spec, Struct, Band, Freq	Smith	JACS	73 (1951)	3851
$C_{22}H_{30}O_4$	3,11-Diketobisnor-4-cholenic acid	-	Struct	Meister	JACS	76 (1954)	5679
$C_{22}H_{30}O_4$	1 β ,6-endo-Dimethyl-6-exo-hydroxy-9 α -acetoxy-2,3-(1'-methoxy-5 β ,6 β ,7,8'-tetrahydro-6,5'-naphtho)-bicyclo[3.3.1]nonane	Sol	H bond	West	JOC	25 (1960)	1976
$C_{22}H_{30}O_4$	dL-3-keto-16,17-dihydroxy- $\Delta^{5,9(11)}$ -10-epi-4-oxa-D-homoandrostadiene acetonide(α enol lactone)	Sol	Spec	Woodward	JACS	74 (1952)	4223
$C_{22}H_{30}O_4$	dL-3-keto-16,17-dihydroxy- $\Delta^{5,9(11)}$ -4-oxa-D-homoandrostadiene acetonide (β enol lactone)	Sol	Spec	Woodward	JACS	74 (1952)	4223
$C_{22}H_{30}O_4$	Li bocedrol	Sol	Spec, Struct, Group freq	Zavarin	JOC	20 (1955)	788

$C_{22}H_{30}O_4$	19-Nor-desoxycorticosterone acetate	-	Sol	Group freq Struct, Ident	Sandoval Sandoval	JACS 75 (1953) JACS 77 (1955)	4117 148
$C_{22}H_{30}O_5$	17 α -Hydroxydehydrocorticosterone-21-methyl ether	-	-	Group freq	Huang	JACS 76 (1954)	2396
$C_{22}H_{30}O_6$	2,4b-Dimethyl-2-acetyl-7-ethylenedioxy-1,2,3,4,4a α ,4b,5,6,7,8,10,10e β -dodecahydrophenanthrene-4 β -ol-1-one acetate	-	S	Group freq	Lukes	JACS 75 (1953)	1707
$C_{22}H_{30}O_6$	1,14-Dimethyl-2,6,7-triacetoxy- $\Delta^{1,10}$ -decahydrophenanthrene	2-12 μ	Sol	Band freq	Woodward	JACS 74 (1952)	4223
$C_{22}H_{30}O_6$	Neoaquassin	650-3600	S	Spec, Ident, Struct Group freq	Adams Hanson	JACS 72 (1950) JCS - (1954)	375 4238
$C_{22}H_{30}O_6$	Quassin	650-3600	S	Spec, Ident, Struct Group freq	Adams Hanson	JACS 72 (1950) JCS - (1954)	375 4238
$C_{22}H_{30}O_7$	Alloquassinolic acid	-	S	Group freq	Hanson	JCS - (1954)	4238
$C_{22}H_{31}Cl_3O_5$	Δ^4 -Pregnene-11 α ,17 α ,21-triol-3,20-dione 1:1-chloroform adduct	-	S	Freq	Gords	JACS 75 (1953)	5416
$C_{22}H_{32}$	1-Dodecyl-naphthalene	691-3238	L	Table, I	Anderson	JCS - (1953)	443
$C_{22}H_{32}$	2-Dodecyl-naphthalene	720-3248	L	Table, I	Anderson	JCS - (1953)	443
$C_{22}H_{32}N_2$	d-6-Benzylsparteine	-	Sol	Band freq	Leonard	JACS 77 (1955)	1552
$C_{22}H_{32}N_2 \cdot HClO_4$	d-6-Benzylsparteine perchlorate	-	S	Band study	Leonard	JACS 77 (1955)	1552
$C_{22}H_{32}O_2$	3-Ketobisnor-4-cholestenaldehyde	-	S	Ident	Shepperd	JACS 77 (1955)	1212

$C_{22}H_{32}O_2$	Δ^5 -16,17-Methylene-pregnenol- β -one-20	-	Sol	Band freq, Struct	Jones Jones	JACS JACS	74 (1952) 74 (1952)	2820 5648
$C_{22}H_{32}O_2$	$\Delta^{5,16}$ -16 α -Methylpregnadienol- β -one-20	-	Sol	Group freq	Cole	JACS	74 (1952)	5571
$C_{22}H_{32}O_2$	Δ^4 -16 α -Methylpregnenedione-2,20	-	Sol	Band freq, Spec, Struct	Jones	JACS	74 (1952)	2820
$C_{22}H_{32}O_2$	Δ^4 -16-Methyl-17-iso-pregnenedione- β ,20	-	Sol	Band freq, Spec, Struct	Jones	JACS	74 (1952)	2820
$C_{22}H_{32}O_3$	Δ^4 -Androsteno-17 α -one- β -propionate	- 1530-1800	- S	Assign Group freq	Jones Meda	JACS SA	70 (1948) 13 (1958)	2024 75
$C_{22}H_{32}O_3$	Δ^4 -Androsteno-17 β -one- β -propionate	-	Sol, S	Group freq	Tarpley	APS	9 (1955)	69
$C_{22}H_{32}O_3$	Δ^5 -Androsteno-17 β -one-17-propionate	-	-	Assign	Jones	JACS	70 (1948)	2024
$C_{22}H_{32}O_3$	Δ^4 -16 α -Methoxypregnenedione- β ,20	-	Sol	Band freq, Spec, Struct	Jones	JACS	74 (1952)	2820
$C_{22}H_{32}O_3$	Δ^4 -19-Norpregnen-20-ol- β -one acetate	-	Sol	Band freq	Djerassi	JACS	75 (1953)	4440
$C_{22}H_{32}O_4$	Δ^5 - β -Acetoxycholeonic acid	-	Sol, S	Group freq	Tarpley	APS	9 (1955)	69
$C_{22}H_{32}O_4$	17 β -Acetoxy- β -methoxyandrost-5-en-16-one	-	Sol	Band freq, Group study	Bellamy	JCS	- (1957)	861
$C_{22}H_{32}O_4$	6 β -Acetoxy-17 α -methyltestosterone	-	-	Ident	Eppstein	JACS	76 (1954)	3174
$C_{22}H_{32}O_4$	3,11-Diketobisnorcholanic acid	-	-	Struct	Meister	JACS	76 (1954)	5679

$C_{22}H_{32}O_4$	2 α ,4b-Dimethyl-2-methyl-7-ethylene-dioxy-1,2,3,4,4a α ,4b,5,6,7,8,10,10a β -dodecahydrophenanthrene- β -ol-1-one	-	S	Band freq	Sarett	JACS	75 (1953)	2112
$C_{22}H_{32}O_4$	Ethyl 3-keto-8,19-oxidotetralochohanate	850-1219	Sol	Spec, Ident, Struct	Ehrenstein	JOC	16 (1951)	335
$C_{22}H_{32}O_4$	$\Delta^9(11)$ -3 α -Hydroxy-12-ketobisnorcholeonic acid	-	S, Sol	Group freq	Tarpley	APS	9 (1955)	69
$C_{22}H_{32}O_5$	1-(β -Carboxyethyl)-1,14-dimethyl-2-keto-6,7-dihydroxy- ¹⁰ Δ -dodecahydrophenanthrene acetonide, α -isomer	2-12 μ	Sol	Spec	Woodward	JACS	74 (1952)	4223
$C_{22}H_{32}O_5$	1-(β -Carboxyethyl)-1,14-dimethyl-2-keto-6,7-dihydroxy- ¹⁰ Δ -dodecahydrophenanthrene acetonide, β isomer	2-12 μ	Sol	Spec	Woodward	JACS	74 (1952)	4223
$C_{22}H_{32}O_5$	D-Homocitochololactone-3 α -ol-11-one acetate	-	Sol	Group freq	Wendler	JACS	77 (1955)	3559
$C_{22}H_{32}O_5$	Isopropylideneanhydromedotoxin	-	Sol	Group freq	Wood	JACS	76 (1954)	5689
$C_{22}H_{32}O_8$	Methyl alternarate	-	S	Group freq, Spec	Grove	JCS	- (1952)	4056
$C_{22}H_{32}O_{12}$	Ethyl 1,1,2,2,3,4-butene-3 hexacarboxylate	-	S	Group freq, Ident	Overberger	JACS	75 (1953)	6058
$C_{22}H_{32}O_{12}$	Ethyl 1,1,2,2,3,4-cyclobutane hexacarboxylate	2-13 μ	S	Spec, Struct, Band freq	Reid	JACS	73 (1951)	1985
$C_{22}H_{32}Si$	Diphenyl-n-decylsilane	2-16 μ	Sol	Group freq	Kniseley	SA	15 (1959)	651

$C_{22}H_{33}BrO_4$	21-Bromopregnanediol -3 α , 17 α -one-20-formate-3	-	Sol	Band freq, Spec	Jones	JACS	74 (1952)	2820
$C_{22}H_{33}ClO_5S$	Ethyl 3 α -chloro-5,19-dihydroxy etiocholanate 5,19-sulfite, form A	800-1150	Sol	Spec, Ident	Herzig	JOC	17 (1952)	724
$C_{22}H_{33}ClO_5S$	Ethyl 3 α -chloro-5,19-dihydroxyetiocholanate 5,19-sulfite, form B	800-1150	Sol	Spec, Ident	Herzig	JOC	17 (1952)	724
$C_{22}H_{33}NO_2$	Atisine	-	-	Struct, Group freq	Pelletier	JACS	76 (1954)	4496
$C_{22}H_{33}NO_2$	Isoatisine	-	-	Struct, Group freq	Pelletier	JACS	76 (1954)	4496
$C_{22}H_{33}NO_2$	Cauchichicine	-	Sol	Group freq	Djerassi	JACS	76 (1954)	5889
$C_{22}H_{33}NO_2$	Geralbine	-	-	Struct	Stoll	JACS	74 (1952)	4728
$C_{22}H_{34}O$	3,7-Dimethyl-1-(2,6,6-trimethylcyclohex-2-enylidene)nona-2,4-cis,6-trien-8-ol ethyl ether	2-16 μ	Sol	Spec	Oroshink	JACS	76 (1954)	5719
$C_{22}H_{34}O$	3,7-Dimethyl-1-(2,6,6-trimethylcyclohex-2-enylidene)nona-2,4-trans, 6-trien-8-ol ethyl ether	2-16 μ	Sol	Spec	Oroshink	JACS	76 (1954)	5719
$C_{22}H_{34}O_2$	3-Ketobisnorallocholan-22-al	-	-	Ident	Slomp	JACS	77 (1955)	1216
$C_{22}H_{34}O_2$	3-Ketobisnorcholan-22-al	-	-	Struct	Slomp	JACS	77 (1955)	1216
$C_{22}H_{34}O_2$	3 β -Methoxy-5-pregnen-20-one	2-13 μ	S, Sol	Spec, Struct	Josien	JACS	73 (1951)	4445
$C_{22}H_{34}O_2$	6-Methoxy-i-pregnan-20-one	2-13 μ	S, Sol	Spec, Freq, Struct	Josien	JACS	73 (1951)	4445

$C_{22}H_{34}O_2$	$\Delta^5-16\alpha$ -Methylpregnenol - β -one-20	-	Sol	Band freq, Spec, Struct Group freq	Jones 74 (1952)	JACS	74 (1952)	2820
$C_{22}H_{34}O_2S_2$	β -(Ethylene di thio ket al)- 12 α -hydroxy-1 β β -methyl -12-nor-1 β ,14 α -abietan -15-oic lactone	-	Sol	Group freq	Cole 74 (1952)	JACS	74 (1952)	5571
$C_{22}H_{34}O_2S$	α -Dipiperitone acetate	-	S	Group freq	Subluskey 76 (1954)	JACS	76 (1954)	3512
$C_{22}H_{34}O_3$	β -Dipiperitone acetate	740-2950	S	Group freq	Briggs -	JCS	- (1953)	3788
$C_{22}H_{34}O_3$	β -Acetoxyetioallocho- lanic acid	751-2941	S	Group freq	Briggs -	JCS	- (1953)	3788
$C_{22}H_{34}O_3$	11 α ,22-Dihydroxybis- norallocholane- β ,6- dione	2-12 μ	Sol	Ident	Woodward	JACS	74 (1952)	4223
$C_{22}H_{34}O_3$	1,21-Docosadiene-5,7,16, 18-tetraene	-	-	Group freq	Meister	JACS	76 (1954)	5679
$C_{22}H_{34}O_4$	Pregnanediol- β α ,17 α -one -20-formate- β	1500-3500	S	Freq, Assign, Struct	Martin	JACS	80 (1958)	4891
$C_{22}H_{34}O_4$	6 β ,11 α ,22-Trihydroxybis- nor-4-cholen- β -one	-	Sol	Band freq, Spec, Struct Group freq	Jones -	JACS	74 (1952)	2820
$C_{22}H_{34}O_4$	Digitogenin lactone triol	-	Sol	Group freq	Jones	JACS	74 (1952)	5648
$C_{22}H_{34}O_5$	Ethyl β β ,5-dihydroxy- 8,19-oxidoetiocholatanate	-	-	Ident, Struct	Meister	JACS	76 (1954)	5679
$C_{22}H_{34}O_5$	Ethyl β β ,5-dihydroxy-19- oxoetiocholatanate	850-1220	S, Sol	Band freq	Klass	JACS	77 (1955)	3829
$C_{22}H_{34}O_5$	Δ^{14} - β ,5,19-Trihydroxy- etiocholonic acid ethyl ester	-	-	Ident, Struct	Ehremstein	JOC	16 (1951)	335
$C_{22}H_{34}O_5$	Ethyl β β ,5-dihydroxy-19- oxoetiocholatanate	850-1220	Sol	Spec, Ident, Struct	Ehremstein	JOC	16 (1951)	349
$C_{22}H_{34}O_5$	Δ^{14} - β ,5,19-Trihydroxy- etiocholonic acid ethyl ester	1580-3100	Sol	Group study, I	Jones	JACS	72 (1950)	86

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