

AN INDEX
OF PUBLISHED
INFRA-RED
SPECTRA

Volume II

MINISTRY OF AVIATION

AN INDEX
OF PUBLISHED
INFRA-RED SPECTRA

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C O N T E N T S

Part I. ORGANIC COMPOUNDS

(a) Molecular formula index:-

C - C ₉	Vol. I
C ₁₀ onwards	Vol. II, pp.401-730

(b) Name index of compounds whose formulae have not been determined or which have ill-defined composition	Vol. II, pp.733-745
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Part II. INORGANIC COMPOUNDS

Name index	Vol. II, pp.747-805
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<u>Reference</u>	<u>State</u>	<u>Range</u>	<u>Optics</u>	<u>Remarks</u>
<u>C₁₀H₅DO₇S₂Na₂</u> 2-NAPHTHOL-6:8-DISULPHONIC ACID-d ₁ , SODIUM SALT Helv.Chim.Acta, 1956, <u>39</u> (6), 1610	s.	2-15μ	NaCl	Nujol mull
<u>C₁₀H₆O₂</u> COUMARIN J. Amer. Chem. Soc., 1949, <u>71</u> (3), 1073	soln	2-15μ	NaCl	10% in CHCl ₃
1:4-NAPHTHAQUINONE J. Amer. Chem. Soc., 1954, <u>76</u> (9), 2368	soln	2-12μ	-	
<u>C₁₀H₆O₃Br₂</u> p-BROMOBENZYLIDENEPYRUVIC ACID J. Amer. Chem. Soc., 1954, <u>76</u> (2), 503	soln	2.5-13μ	-	
β-BROMO-γ-(p-BROMOPHENYL)-α-HYDROXY-γ-CROTONOLACTONE J. Amer. Chem. Soc., 1954, <u>76</u> (2), 503	soln	2.5-13μ	-	Baird spectrometer
<u>C₁₀H₆O₄</u> 5:8-DIHYDROXY-1:4-NAPHTHAQUINONE Trans. Faraday Soc., 1954, <u>50</u> , 911 " " " " " "	s. soln	1700-700cm ⁻¹ 4000-2000cm ⁻¹	LiF, NaCl LiF, NaCl	
<u>C₁₀H₆O₇S₂Na₂</u> 2-NAPHTHOL-6:8-DISULPHONIC ACID, DISODIUM SALT Helv. Chim. Acta, 1956, <u>39</u> (6), 1610	s.	2-15μ	NaCl	Nujol mull
<u>C₁₀H₆ClBr</u> 1-CHLORO-3-BROMOAZULENE J. Amer. Chem. Soc., 1953, <u>75</u> (20), 4980	-	2-15μ	-	
- 401 -	-			

<u>Reference</u>	<u>State</u>	<u>Range</u>	<u>Optics</u>	<u>Remarks</u>
<u>C₁₀H₆Cl₂</u> 1:3-DICHLOROAZULENE J. Amer. Chem. Soc., 1953, <u>75</u> (20), 4980	-	2-15 μ	-	
<u>C₁₀H₆Br₂</u> 1:3-DIBROMOAZULENE J. Amer. Chem. Soc., 1953, <u>75</u> (20), 4980	-	2-15 μ	-	
<u>C₁₀H₇DO</u> 2-NAPHTHOL-d ₁ Helv. Chim. Acta, 1956, <u>39</u> (6), 1610	soln	2-15 μ	NaCl	in CCl ₄
<u>C₁₀H₇O₂N</u> QUINALDINIC ACID J. Amer. Chem. Soc., 1952, <u>74</u> (17), 4430	s.	2-15 μ	NaCl	dihydrate
<u>C₁₀H₈</u> NAPHTHALENE J. Amer. Chem. Soc., 1925, <u>47</u> , 2811 Bull. Soc. roum. Phys., 1936, <u>37</u> , 19 Ann. Off. Combust. liq., 1938, 111 Compt. rend., 1938, <u>207</u> , 395 J. Phys. Radium, 1938, <u>9</u> , 512 J. Chem. Soc., 1939, 318 J. Phys. Radium, 1939, <u>10</u> , 423 Ind. Eng. Chem. (Anal. Ed.), 1943, <u>15</u> , 659 Barnes et al.: "Infra-red spectroscopy". Reinhold Corp. N.Y., 1944 Nature, 1947, <u>159</u> , 641 J. Chem. Phys., 1952, <u>20</u> (2), 270 " " " " " " " " " "	l. g. - s. l. soln - s. s. s. g. s. soln	10,000-830cm ⁻¹ 6700-500cm ⁻¹ 1400-510cm ⁻¹ 1350-500cm ⁻¹ 1400-500cm ⁻¹ 3900-2900cm ⁻¹ 1350-525cm ⁻¹ 2000-1000cm ⁻¹ 1800-1200cm ⁻¹ 5000-1400cm ⁻¹ 2.7-21 μ 3-21 μ 3-22 μ	NaCl quartz, NaCl NaCl, KBr - NaCl, KCl concave grating - - NaCl - LiF, NaCl, KBr LiF, NaCl, KBr LiF, NaCl, KBr	Wadsworth system comparison with quinoline i.r. & Raman in CCl ₄ film
<u>C₁₀H₈O</u> 6-FURYL-2-FULVENE Chem. Ber., 1957, <u>90</u> (7), 1352	l.	2-15 μ	NaCl	

1-NAPHTHOL

J. Amer. Chem. Soc., 1950, 72(12), 5626
 J. Amer. Chem. Soc., 1951, 73(6), 2881
 " " " " " "

soln 3800-1600cm⁻¹
 soln 2.5-3.5μ
 soln 7.5-15μ

NaCl
 -
 -

0.02 molar in CCl₄

2-NAPHTHOL

Ind. Eng. Chem. (Anal. Ed.), 1943, 15, 659
 Barnes et al.: "Infra-red spectroscopy". Reinhold Corp. N.Y., 1944
 J. Amer. Chem. Soc., 1950, 72(12), 5626
 J. Amer. Chem. Soc., 1951, 73(6), 2881
 " " " " " "
 Helv. Chim. Acta, 1956, 39(6), 1610

l. 1750-1050cm⁻¹
 l. 1700-1100cm⁻¹
 soln 3800-1600cm⁻¹
 soln 2.5-3.5μ
 soln 7.5-15μ
 soln 2-15μ

NaCl
 NaCl
 -
 -
 NaCl

21μ cell
 0.02 molar in CCl₄
 in CCl₄



5-BENZAL-2-THIOHYDANTOIN

Randall et al.: "Infra-red determination of organic structures". D. Van Nostrand Co., Inc. N.Y., 1949

deposited from pyridine



METHYL-2-THIANAPHTHENYL KETONE

J. Amer. Chem. Soc., 1950, 72(10), 4433

in CS₂



FURFURAL AZINE

J. Amer. Chem. Soc., 1948, 70(1), 194

soln 2000-1400cm⁻¹

-

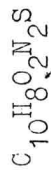
0.4 molar in CHCl₃,
 PE 12A spectrometer

2-PHENYL-4:6-DIHYDROXYPYRIMIDINE

Spectrochim. Acta, 1956, 8(1), 9

s. 3600-650cm⁻¹

NaCl



1-BENZOYL-2-THIOHYDANTOIN

Randall et al.: "Infra-red determination of organic structures". D. Van Nostrand Co., Inc. N.Y., 1949

3-9μ

NaCl

oil paste, 10μ approx.

<u>Reference</u>	<u>State</u>	<u>Range</u>	<u>Optics</u>	<u>Remarks</u>
C ₁₀ H ₈ O ₂ N ₂ S (contd)				
5-(o-HYDROXYBENZAL)-2-THIOHYDANTOIN Randall et al.: "Infra-red determination of organic structures". D.Van Nostrand Co., Inc. N.Y., 1949	s.	3-9μ	NaCl	10μ approx.
C ₁₀ H ₈ O ₃				
1-HYDROXYANTHRAQUINONE Trans.Faraday Soc., 1954, <u>50</u> , 911 " " " " " " "	s. soln	1700-700cm ⁻¹ 4000-2000cm ⁻¹	LiF, NaCl LiF, NaCl	
C ₁₀ H ₈ O ₃ N ₂				
2-PHENYL-4:5:6-TRIHYDROXYPYRIMIDINE Spectrochim.Acta, 1956, <u>8</u> (1), 9	s.	3600-650cm ⁻¹	NaCl	
C ₁₀ H ₈ O ₄ PNa				
β-NAPHTHYL DIHYDROGEN PHOSPHATE, SODIUM HALF-SALT J.Amer.Chem.Soc., 1951, <u>73</u> (11), 5292	s.	2-16μ	-	
C ₁₀ H ₈ NCIS				
7-CHLORO-4-METHYL-2-QUINOLINETHIOL J.Amer.Chem.Soc., 1949, <u>71</u> (11), 3733	s.	1-16μ	-	Nujol mull, Baird spectrometer
C ₁₀ H ₈ N ₂				
2:3'-DIPYRIDYL J.Opt.Soc.Amer., 1933, <u>23</u> , 92	l.	10,000-830cm ⁻¹	CaF ₂ , NaCl	
C ₁₀ H ₈ S				
2-NAPHTHALENETHIOL J.Amer.Chem.Soc., 1949, <u>71</u> (11), 3733	s.	1-16μ	-	Nujol mull, Baird spectrometer

<u>C₁₀H₉ON</u>					
N-METHYLCARBOSTYRIL					
J.Org.Chem., 1957, <u>22</u> (2), 211	soln	2-16μ	NaCl	in CCl ₄ , CS ₂ ;	Baird spectrometer
2-METHYL-8-HYDROXYQUINOLINE					
J.Amer.Chem.Soc., 1949, <u>71</u> (12), 3984	soln	2-11μ	-	in CS ₂ , Beckman IR2	spectrometer
Spectrochim.Acta, 1956, <u>8</u> (1), 1	s.	8-15μ	NaCl		
4-METHYL-8-HYDROXYQUINOLINE					
Spectrochim.Acta, 1956, <u>8</u> (1), 1	s.	8-15μ	NaCl		
<u>C₁₀H₉O₂N</u>					
1-METHYL-3-HYDROXYMETHYLENEOXINDOLE					
J.Amer.Chem.Soc., 1953, <u>75</u> (22), 5514	soln	2-11μ	-	in CCl ₄	
<u>C₁₀H₉O₃N</u>					
3-ACETAMIDOPHTHALIDE					
J.Org.Chem., 1957, <u>22</u> (5), 547	s.	2-16μ	-	Nujol mull	
1-PHENYL-4-CARBOXY-2-AZETIDINONE					
J.Amer.Chem.Soc., 1950, <u>72</u> (11), 5158	soln	2-10μ	-	5% in C ₂ H ₂ Cl ₄ ,	Baird spectrometer
<u>C₁₀H₉O₄N</u>					
γ-P-NITROPHENYL-γ-BUTYROLACTONE					
J.Amer.Chem.Soc., 1952, <u>74</u> (16), 4083	s.	5-14.5μ	-		
" " " "	soln	5-14.5μ	-		
<u>C₁₀H₉N</u>					
1-NAPHTHYLAMINE					
J.Amer.Chem.Soc., 1928, <u>50</u> , 685	l.	14,300-4500cm ⁻¹	quartz		
	- 405 -				

C₁₀ (contd)

- 406 -

<u>C₁₀^{H₉N} (contd)</u>	<u>Reference</u>	<u>State</u>	<u>Range</u>	<u>Optics</u>	<u>Remarks</u>
1-NAPHTHYLAMINE (contd)					
Ind. Eng. Chem. (Anal. Ed.), 1943, <u>15</u> , 659		soln	2000-900cm ⁻¹	-	in CCl ₄
J. Amer. Chem. Soc., 1925, <u>47</u> , 3039		l.	10,000-800cm ⁻¹	NaCl	Gaertner spectrometer
Barnes et al.: "Infra-red spectroscopy". Reinhold Corp. N.Y., 1944		l.	2000-900cm ⁻¹	NaCl	45μ cell
2-NAPHTHYLAMINE					
J. Amer. Chem. Soc., 1935, <u>57</u> , 1464		soln	7000-6400cm ⁻¹	glass	in CCl ₄
Ind. Eng. Chem. (Anal. Ed.), 1943, <u>15</u> , 659		l.	2000-850cm ⁻¹	-	
Barnes et al.: "Infra-red spectroscopy". Reinhold Corp. N.Y., 1944		l.	2000-900cm ⁻¹	NaCl	150μ cell
<u>C₁₀^{H₉NS}</u>					
7-METHYL-2-QUINOLINETHIOL					
J. Amer. Chem. Soc., 1949, <u>71</u> (11), 3733		s.	1-16μ	-	Nujol mull, Baird spectrometer
7-METHYL-4-QUINOLINETHIOL					
J. Amer. Chem. Soc., 1949, <u>71</u> (11), 3733		s.	1-16μ	-	Nujol mull, Baird spectrometer
<u>C₁₀^{H₁₀}</u>					
cis-PHENYLBUTADIENE					
J. Amer. Chem. Soc., 1951, <u>73</u> (7), 3479		-	5.5-14.5μ	-	
trans-PHENYLBUTADIENE					
J. Amer. Chem. Soc., 1951, <u>73</u> (7), 3479		-	5.5-14.5μ	-	
cis-1-PHENYL-1:3-BUTADIENE					
J. Amer. Chem. Soc., 1951, <u>73</u> (3), 1191		-	3-16μ	-	
VINYLCYCLOOCTATETRAENE					
J. Amer. Chem. Soc., 1951, <u>73</u> (3), 1191		-	3-16μ	-	
J. Amer. Chem. Soc., 1951, <u>73</u> (3), 1195		soln	2-16μ	NaCl	in CCl ₄

<u>C₁₀H₁₀O</u>					
cycloOCTATETRAENYL METHYL KETONE					
J. Amer. Chem. Soc., 1953, <u>75</u> (13), 3220	l.	2-16μ	NaCl		
α-TETRALONE					
J. Phys. Radium, 1945, <u>6</u> , 257	l.	1750-500cm ⁻¹	-		
<u>C₁₀H₁₀ON</u>					
2-PHENYL-3-p-TOLUYLETHYLENIMINE					
J. Amer. Chem. Soc., 1951, <u>73</u> (3), 1044	s.	5-10μ	-		Nujol mull
" " " " "	soln	5-10μ	-		in CHCl ₃
<u>C₁₀H₁₀ONF₃</u>					
N-ETHYLTRIFLUOROACETANILIDE					
J. Amer. Chem. Soc., 1951, <u>73</u> (12), 5898	l.	2-14.5μ	-		
" " " " "	soln	2-14.5μ	-		
<u>C₁₀H₁₀ON₂</u>					
3:7-DIMETHYL-1-OXO-1:7-DIHYDRO-2:7-NAPHTHYRIDINE					
Chem. Ber., 1957, <u>90</u> (12), 2933	-	2-15μ	NaCl		
1:2-DIMETHYL-4-QUINAZOLONE					
J. Amer. Chem. Soc., 1952, <u>74</u> (19), 4834	s.	3500-700cm ⁻¹	NaCl		
2:3-DIMETHYL-4-QUINAZOLONE					
J. Amer. Chem. Soc., 1952, <u>74</u> (19), 4834	s.	3500-700cm ⁻¹	NaCl		
1-METHOXY-3-METHYL-2:7-NAPHTHYRIDINE					
Chem. Ber., 1957, <u>90</u> (12), 2933	-	2-15μ	NaCl		
1-PHENYL-3-METHYLPYRAZOLONE-5					
Randall et al.: "Infra-red determination of organic structures". D. Van Nostrand Co., Inc. N.Y., 1949	s.	3-9μ	NaCl		oil paste, 10μ approx.
	-	407	-		

C₁₀ (contd)

<u>Reference</u>	<u>State</u>	<u>Range</u>	<u>Optics</u>	<u>Remarks</u>
C ₁₀ H ₁₀ ON ₂ ^S 6-PHENYL-5:6-DIHYDRO-2-THIOURACIL Randall et al.: "Infra-red determination of organic structures". D.Van Nostrand Co., Inc. N.Y., 1949	s.	3-9μ	NaCl	oil paste, 10μ approx.
C ₁₀ H ₁₀ O ₂ BENZOYLACETONE J.Chem.Soc., 1932, 1189 " " " " Trans.Faraday Soc., 1956, 52(4), 464	l. soln soln	3600-1100cm ⁻¹ 3600-1100cm ⁻¹ 3700-690cm ⁻¹	NaCl NaCl LiF, NaCl	Hilger spectrometer in CCl ₄ , Hilger spectrometer PE 21 spectrometer
SAFROLE W.W. Coblentz: "Investigations of infra-red spectra". Carnegie Institution Publication 35, Pt.1. Washington, 1905	l.	5000-650cm ⁻¹	NaCl	
C ₁₀ H ₁₀ O ₂ N ₂ 2:4-DIMETHOXYQUINAZOLINE J.Amer.Chem.Soc., 1952, 74(19), 4834 1:3-DIMETHYL-2:4-QUINAZOLINEDIONE J.Amer.Chem.Soc., 1952, 74(19), 4834 3-(2-NITROETHYL) INDOLE J.Amer.Chem.Soc., 1954, 76(12), 3227	s. s. soln	3500-700cm ⁻¹ 3500-700cm ⁻¹ 3480-1378cm ⁻¹	NaCl NaCl -	
C ₁₀ H ₁₀ O ₂ N ₂ ^S 5:5'-DIMETHYLTHIAZOLINE-2:2' Chem.Ber., 1957, 90(11), 2435 " " " " " " " "	s. soln	2-15μ 2-15μ	NaCl NaCl	KBr disc in CCl ₄

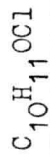
<u>C₁₀H₁₀O₃</u>					
3-ETHOXYPHTHALIDE					
J.Org.Chem., 1957, <u>22</u> (5), 547					
	s.	2-16μ	-		Nujol mull
7-METHOXY-3-METHYLPHTHALIDE					
J.Amer.Chem.Soc., 1952, <u>74</u> (15), 3905					
	soln	2-16μ	-		
PHENACYL ACETATE					
Randall et al.: "Infra-red determination of organic structures". D.Van Nostrand Co., Inc. N.Y., 1949					
	s.	3-9μ	NaCl		oil paste, 10μ approx.
PHENACETURIC ACID, SILVER SALT					
Randall et al.: "Infra-red determination of organic structures". D.Van Nostrand Co., Inc. N.Y., 1949					
	s.	2.5-9μ	NaCl		hydrate; oil paste, 10μ approx.
C ₁₀ H ₁₀ O ₃ NNa					
<u>C₁₀H₁₀O₃</u>					
PHENACETURIC ACID, SODIUM SALT					
Randall et al.: "Infra-red determination of organic structures". D.Van Nostrand Co., Inc. N.Y., 1949					
	s.	3-8μ	NaCl		hydrate; oil paste, 10μ approx.
C ₁₀ H ₁₀ O ₄					
<u>C₁₀H₁₀O₄</u>					
PHTHALIC ACID, DIMETHYL ESTER					
Ind.Eng.Chem.(Anal.Ed.), 1943, <u>15</u> , 659					
Barnes et al.: "Infra-red spectroscopy". Reinhold Corp. N.Y., 1944					
	l.	2000-1000cm ⁻¹	-		
	l.	1800-1050cm ⁻¹	NaCl		2μ cell
TEREPHTHALIC ACID, DIMETHYL ESTER					
Trans.Faraday Soc., 1953, <u>49</u> , 433					
	soln	1800-700cm ⁻¹	NaCl		
C ₁₀ H ₁₀ O ₄ N ₄ S					
<u>C₁₀H₁₀O₄N₄S</u>					
ADENINE SULPHATE					
Randall et al.: "Infra-red determination of organic structures". D.Van Nostrand Co., Inc. N.Y., 1949					
	s.	2-15μ	NaCl		oil paste, 10μ approx.

<u>C₁₀ (contd)</u>	<u>Reference</u>	<u>State</u>	<u>Range</u>	<u>Optics</u>	<u>Remarks</u>
- 410 -					
<u>C₁₀H₁₀O₅</u>	METHYL SORBATE - MALEIC ACID ANHYDRIDE ADDUCT J.Amer.Chem.Soc., 1952, <u>74</u> (11), 2905	s.	2.5-7.5μ	-	
<u>C₁₀H₁₀N₂</u>	2-BENZYLIMIDAZOLE-Δ ¹ Randall et al.: "Infra-red determination of organic structures". D.Van Nostrand Co., Inc. N.Y., 1949	l.	2.5-11μ	NaCl	15μ cell
	" " " " " " " "	s.	3-15μ	NaCl	deposited from ethanol
	" " " " " " " "	soln	2.5-11μ	NaCl	in CHCl ₃
<u>2:4-DIMETHYLQUINAZOLINE</u>	J.Amer.Chem.Soc., 1952, <u>74</u> (19), 4834	s.	3500-700cm ⁻¹	NaCl	
<u>C₁₀H₁₀Fe</u>	bis-cyclopentadienyl IRON (FERROCENE) J.Amer.Chem.Soc., 1952, <u>74</u> (21), 5531 J.Amer.Chem.Soc., 1954, <u>76</u> (7), 1970	s. soln	4000-700cm ⁻¹ 2-16μ	NaCl -	
<u>C₁₀H₁₀Ni</u>	bis-cyclopentadienyl NICKEL J.Amer.Chem.Soc., 1954, <u>76</u> (7), 1970	soln	2-16μ	-	
<u>C₁₀H₁₀Ru</u>	bis-cyclopentadienyl RUTHENIUM (RUTHENOCENE) J.Amer.Chem.Soc., 1952, <u>74</u> (23), 6146	soln	2-13μ	NaCl	
<u>C₁₀H₁₁ON</u>	1:3-DIMETHYLOXINDOLE J.Amer.Chem.Soc., 1953, <u>75</u> (22), 5514	soln	2-11μ	-	

1-ETHYLOXINDOLE-2

Randall et al.: "Infra-red determination of organic structures". D.Van Nostrand Co., Inc. N.Y., 1949

s. 2.5-9 μ NaCl oil paste, 10 μ approx.



MESITOYL CHLORIDE

Helv.Chim.Acta, 1957, 40(4), 971

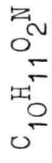
l. 4000-650cm⁻¹ NaCl



MESITOYL CHLOROALUMINATE

Helv.Chim.Acta, 1957, 40(4), 971

s. 4000-650cm⁻¹ CaF₂, NaCl, KBr



3-DIMETHYLAMINOPHTHALIDE

J.Org.Chem., 1957, 22(5), 547

s. 2-16 μ - Nujol mull

PHENACETAMIDOACETALDEHYDE

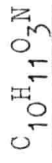
Randall et al.: "Infra-red determination of organic structures". D.Van Nostrand Co., Inc. N.Y., 1949

s. 3-15 μ NaCl deposited from acetonitrile

N-PHENYLGLYCINE, ETHYL ESTER

Randall et al.: "Infra-red determination of organic structures". D.Van Nostrand Co., Inc. N.Y., 1949

s. 2-9 μ NaCl oil paste, 10 μ approx.



MALONANILIC ACID, METHYL ESTER

J.Amer.Chem.Soc., 1952, 74(19), 4910

soln 3600-650cm⁻¹ -

N-METHYL-N-ACETYLANTHRANILIC ACID

J.Amer.Chem.Soc., 1949, 71(3), 1073

soln 2-15 μ NaCl 10% in CCl₄

<u>C₁₀ (contd.)</u>	<u>Reference</u>	<u>State</u>	<u>Range</u>	<u>Optics</u>	<u>Remarks</u>
- 412 -					
<u>C₁₀H₁₁O₃N (contd.)</u>					
PHENACETURIC ACID					
	Randall et al.: "Infra-red determination of organic structures". D.Van Nostrand Co., Inc. N.Y., 1949	s.	2.5-15μ	NaCl	oil paste & deposited from ethanol
<u>C₁₀H₁₁O₃NCl₂S</u>					
4-CARBOMETHOXY-5:5-DIMETHYL-2-THIAZOLIDINE-α:β-DICHLOROACRYLIC ACID, γ-LACTAM	J. Amer. Chem. Soc., 1952, <u>74</u> (16), 4093	-	3-12μ	-	
<u>C₁₀H₁₁O₃NBr₂S</u>					
4-CARBOMETHOXY-5:5-DIMETHYL-2-THIAZOLIDINE-α:β-DIBROMOACRYLIC ACID, γ-LACTAM	J. Amer. Chem. Soc., 1952, <u>74</u> (16), 4093	-	3-12μ	-	
<u>C₁₀H₁₁N</u>					
1:3-DIMETHYLLINDOLE	J. Amer. Chem. Soc., 1948, <u>70</u> (5), 1857	l.	3800-650cm ⁻¹	-	
3-ETHYLLINDOLE	J. Amer. Chem. Soc., 1948, <u>70</u> (11), 3712	soln	2.84-13.5μ	-	in CHCl ₃ , CS ₂
<u>C₁₀H₁₂</u>					
trans-DECAPENTAENE	J. Amer. Chem. Soc., 1952, <u>74</u> (20), 5227	soln	2-16μ	-	
1:2-DIMETHYLCYCLOOCTATETRAENE	J. Amer. Chem. Soc., 1952, <u>74</u> (1), 179	l.	2-16μ	NaCl	
2:3-DIMETHYLSYTYRENE	Ind. Eng. Chem. (Anal. Ed.), 1943, <u>15</u> , 659	l.	2000-750cm ⁻¹	-	

Barnes et al.: "Infra-red spectroscopy". Reinhold Corp. N.Y., 1944	1.	2000-750cm ⁻¹	NaCl	45μ cell
2:4-DIMETHYLSITYRENE				
Ind.Eng.Chem.(Anal.Ed.), 1943, <u>15</u> , 659	1.	2000-750cm ⁻¹	-	
Barnes et al.: "Infra-red spectroscopy". Reinhold Corp. N.Y., 1944	1.	2000-750cm ⁻¹	NaCl	45μ cell
α-p-DIMETHYLSITYRENE				
Ind.Eng.Chem.(Anal.Ed.), 1943, <u>15</u> , 659	1.	2000-750cm ⁻¹	-	
Barnes et al.: "Infra-red spectroscopy". Reinhold Corp. N.Y., 1944	1.	1950-800cm ⁻¹	NaCl	100μ cell
DicycloPENTADIENE				
Physics, 1933, <u>4</u> , 39	g.	4000-335cm ⁻¹	KCl, KBr	
ETHYLcycloOCTATETRAENE				
J.Amer.Chem.Soc., 1952, <u>74</u> (1), 173	1.	2-16μ	NaCl	
1-METHYL-2-isoPROPENYLBENZENE	-	3.0-14.0μ	-	Gaertner spectrometer
J.Amer.Chem.Soc., 1948, <u>70</u> (11), 3867				
1-METHYL-4-isoPROPENYLBENZENE	-	3.0-14.0μ	-	Gaertner spectrometer
J.Amer.Chem.Soc., 1948, <u>70</u> (11), 3867				
2-PHENYL-1-BUTENE				
J.Amer.Chem.Soc., 1952, <u>74</u> (9), 2137	1.	2.5-15μ	NaCl	
cis-2-PHENYL-2-BUTENE				
J.Amer.Chem.Soc., 1952, <u>74</u> (9), 2137	1.	2.5-15μ	NaCl	
trans-2-PHENYL-2-BUTENE				
J.Amer.Chem.Soc., 1952, <u>74</u> (9), 2137	1.	2.5-15μ	NaCl	
3-PHENYL-1-BUTENE				
J.Amer.Chem.Soc., 1952, <u>74</u> (9), 2137	1.	2.5-15μ	NaCl	

<u>Reference</u>	<u>State</u>	<u>Range</u>	<u>Optics</u>	<u>Remarks</u>
<u>C₁₀H₁₂ (contd)</u>				
1:4:5:8-TETRAHYDRONAPHTHALENE (isoTETRALIN) Chem.Ber., 1957, <u>90</u> (6), 901	-	2-15μ	-	
<u>C₁₀H₁₂DO₂N</u>				
N-PHENYLGLYCINE-d ₁ , ETHYL ESTER Randall et al.: "Infra-red determination of organic structures". D.Van Nostrand Co., Inc. N.Y., 1949	s.	2-9μ	NaCl	oil paste, 10μ approx.
<u>C₁₀H₁₂O</u>				
CUMALDEHYDE W.W. Coblentz: "Investigations of infra-red spectra". Carnegie Institution Publication 35, Pt.1. Washington, 1905	1.	7000-675cm ⁻¹	NaCl	
2:4:6:8-DECATETRAENAL J.Amer.Chem.Soc., 1948, <u>70</u> (1), 194	soln	2000-1400cm ⁻¹	-	in CHCl ₃ , PE 12A spectrometer
ETHOXYCYCLOOCTATETRAENE J.Amer.Chem.Soc., 1954, <u>76</u> (4), 1096	soln	2-16μ	NaCl	
p-(α-METHYLETHYL)-BENZALDEHYDE Ind.Eng.Chem.(Anal.Ed.), 1943, <u>15</u> , 659	1.	2000-750cm ⁻¹	-	
cycloOCTATETRAENYLETHYL ALCOHOL J.Amer.Chem.Soc., 1953, <u>75</u> (13), 3220	1.	2-16μ	NaCl	
α-cycloOCTATETRAENYLETHYL ALCOHOL J.Amer.Chem.Soc., 1953, <u>75</u> (13), 3215	1.	2-16μ	NaCl	