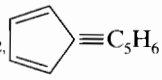
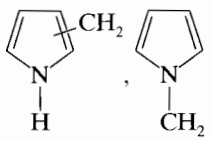
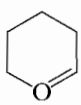
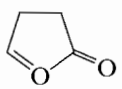
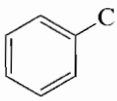
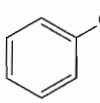
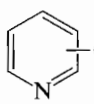
 https://en.wikipedia.org/wiki/Fragmentation_(mass_spectrometry)
https://en.wikipedia.org/wiki/Mass_spectral_interpretation

APPENDIX B COMMON FRAGMENT IONS

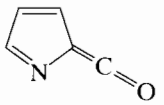
All fragments listed bear +1 charges. To be used in conjunction with Appendix C. Not all members of homologous and isomeric series are given. The list is meant to be suggestive rather than exhaustive. Appendix II of Hamming and Foster (1972). Table A-7 of McLafferty's (1993) interpretative book, and the high-resolution ion data of McLafferty (1982) are recommended as supplements.

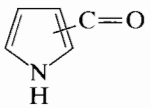
***m/z* Ions**[a]

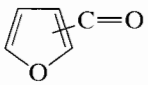
14 CH_2
15 CH_3
16 O
17 OH
18 H_2O, NH_4
19 F, H_3O
26 $C{\equiv}N$, C_2H_2
27 C_2H_3
28 C_2H_4, CO, N_2 (air), $CH{=}NH$
29 C_2H_5, CHO
30 CH_2NH_2, NO
31 CH_2OH, OCH_3
32 O_2 (air)
33 SH, CH_2F
34 H_2S
35 $^{35}Cl^b$
36 $H^{35}Cl^b$
39 C_3H_3
40 $CH_2C{=}N$, Ar (air)
41 C_3H_5, $CH_2C{=}N + H$, C_2H_2NH
42 C_3H_6, C_2H_2O
43 C_3H_7, $CH_3C{=}O$, C_2H_5N
44 $CH_2C(=O)H + H$, CH_3CHNH_2, CO_2 (air), $NH_2C{=}O$, $(CH_3)_2N$
45 $CH_3CH(OH)$, CH_2CH_2OH, CH_2OCH_3, $C(=O)OH$
46 NO_2
47 CH_2SH, CH_3S
48 $CH_3S + H$
49 $CH_2{}^{35}Cl^b$
51 CH_2F_2, C_4H_3
53 C_4H_5
54 $CH_2CH_2C{\equiv}N$
55 C_4H_7, $CH_2{=}CHC{=}O$
56 C_4H_8
57 C_4H_9, $C_2H_5C{=}O$
58 $CH_3C(=O)CH_2 + H$, $C_2H_5CHNH_2$, $(CH_3)_2NCH_2$, $C_2H_5NHCH_2$, C_2H_5S
59 $(CH_3)_2COH$, $CH_2OC_2H_5$, CO_2CH_3, $NH_2C(=O)CH_2 + H$, CH_3OCHCH_3, CH_3CHCH_2OH, C_2H_5CHOH
60 $CH_2CO_2H + H$, CH_2ONO
61 $CH_3CO_2 + 2H$, CH_2CH_2SH, CH_2SCH_3
65 C_5H_5
66 H_2S_2,  $\equiv C_5H_6$
67 C_5H_7
68 $CH_2CH_2CH_2C{\equiv}N$
69 C_5H_9, CF_3, $CH_3CH{=}CHC{=}O$, $CH_2{=}C(CH_3)C{=}O$
70 C_5H_{10}
71 C_5H_{11}, $C_3H_7C{=}O$
72 $C_2H_5C(=O)CH_2 + H$, $C_3H_7CHNH_2$, $(CH_3)_2N{=}C{=}O$, $C_2H_5NHCHCH_3$ and isomers
73 Homologs of 59, $(CH_3)_3Si$
74 $CH_2CO_2CH_3 + H$
75 $CO_2C_2H_5 + 2H$, $C_2H_5CO_2 + 2H$, $CH_2SC_2H_5$, $(CH_3)_2CSH$, $(CH_3O)_2CH$, $(CH_3)_2SiOH$
76 C_6H_4 (C_6H_4XY)
77 C_6H_5 (C_6H_5X)
78 $C_6H_5 + H$
79 $C_6H_5 + 2H$, $^{79}Br^b$
80 $CH_3SS + H$, $H^{79}Br^b$,

81  CH_2, C_6H_9
82 $(CH_2)_4C{\equiv}N$, C_6H_{10}, $C^{35}Cl_2{}^b$
83 C_6H_{11}, $CH^{35}Cl_2{}^b$, 
85 , , C_6H_{13}, $C_4H_9C{=}O$, $Cl^{35}ClF_2{}^b$
86 $C_3H_7C(=O)CH_2 + H$, $C_4H_9CHNH_2$ and isomers
87 $C_3H_7CO_2$, Homologs of 73, $CH_2CH_2CO_2CH_3$
88 $CH_2CO_2C_2H_5 + H$
89 $CO_2C_3H_7 + 2H$, 
90 , CH_3CHONO_2
91 $(C_6H_5)CH_2$, $(C_6H_5)CH + H$, $(C_6H_5)C + 2H$, $(CH_2)_4{}^{35}Cl^b$, $(C_6H_5)N$
92  CH_2, $(C_6H_5)CH_2 + H$

APPENDIX B *(Continued)*

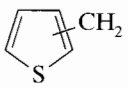
***m/z* Ions**[a]

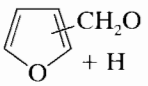
93 $CH_2{}^{79}Br$[b], C_7H_9, $(C_6H_5)O$, 

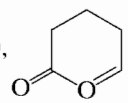
94 $(C_6H_5)O + H$, 

95 

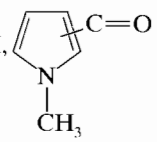
96 $(CH_2)_5C{\equiv}N$

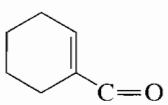
97 C_7H_{13}, 

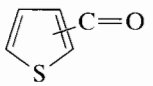
98 

99 C_7H_{15}, $C_6H_{11}O$, 

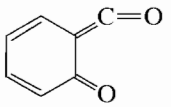
100 $C_4H_9C(=O)CH_2 + H$, $C_5H_{11}CHNH_2$
101 $CO_2C_4H_9$
102 $CH_2CO_2C_2H_7 + H$
103 $CO_2C_4H_9 + 2H$, $C_5H_{11}S$, $CH(OCH_2CH_3)_2$
104 $C_2H_5CHONO_2$
105 $C_6H_5C{=}O$, $C_6H_5CH_2CH_2$, $C_6H_5CHCH_3$
106 $C_6H_5NHCH_2$
107 $C_6H_5CH_2O$, $HO(C_6H_4)CH_2$, $C_2H_4{}^{79}Br$[b]

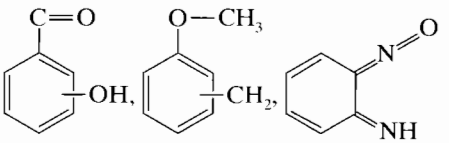
108 $C_6H_5CH_2O + H$, 

109 

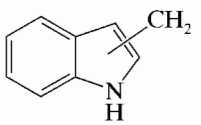
111 

119 CF_3CF_2, $(C_6H_5)C(CH_3)_2$, $CH_3CH(C_6H_4)CH_3$, $CO(C_6H_4)CH_3$

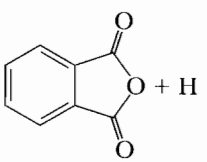
120 

121 C_9H_{13}, 

122 $C_6H_5CO_2 + H$
123 $F(C_6H_4)C{=}O$, $C_6H_5CO_2 + 2H$
125 C_6H_5SO
127 I
128 HI

130 

131 C_3F_5, $C_6H_5CH{=}CHC{=}O$
135 $(CH_2)_4{}^{79}B_r$[b]
138 $CO_2(C_6H_4)OH + H$
139 $^{35}Cl(C_6H_4)C{=}O$[b]
141 CH_2I
147 $(CH_3)_2Si{=}O{-}Si(CH_3)_3$

149 

154 $(C_6H_5)_2$

$$IHD = (C + 1) + (N - H - X)/2$$

[a] Ions indicated as a fragment $+nH$ (n + 1,2,3, . . .) are ions that arise via rearrangement involving hydrogen transfer.
[b] Only the more abundant isotope is indicated.

Common mass equivalents

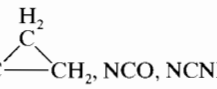
$^{14}N = CH_2$ $\quad$ $^{32}S = C_2H_8$

$^{16}O = CH_4$ $\quad$ $^{35}Cl = C_2H_{11}$

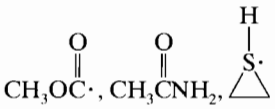
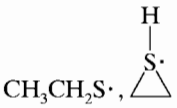
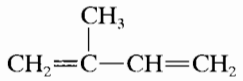
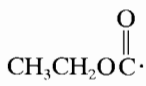
$^{19}F = CH_7$ $\quad$ $^{79}Br = C_6H_7$

APPENDIX C COMMON FRAGMENTS LOST

This list is suggestive rather than comprehensive. It should be used in conjunction with Appendix B. Table 5-19 of Hamming and Foster (1972) and Table A-5 of McLafferty (1993) are recommended as supplements. All of these fragments are lost as neutral species.

Molecular Ion Minus	Fragment Lost (Inference Structure)
1	H·
2	2H·
15	CH_3·
16	O ($ArNO_2$, amine oxides, sulfoxides); ·NH_2 (carboxamides, sulfonamides)
17	HO·
18	H_2O (alcohols, aldehydes, ketones)
19	F·
20	HF
26	CH≡CH, ·CH≡N
27	CH_2=CH·, HC≡N (aromatic nitrites, nitrogen heterocycles)
28	CH_2=CH_2, CO, (quinones) (HCN + H)
29	CH_3CH_2·, (ethyl ketones, $ArCH_2CH_2CH_3$), ·CHO
30	NH_2CH_2·, CH_2O ($ArOCH_3$), NO ($ArNO_2$), C_2H_6
31	·OCH_3(methyl esters), ·CH_2OH, CH_3NH_2
32	CH_3OH, S
33	HS· (thiols), (·CH_3 and H_2O)
34	H_2S (thiols)
35	Cl·
36	HCl, $2H_2O$
37	H_2Cl (or HCl + H)
38	C_3H_2, C_2N, F_2
39	C_3H_3, HC_2N
40	CH_3C≡CH
41	CH_2=$CHCH_2$·
42	CH_2=$CHCH_3$, CH_2=C=O, , NCO, $NCNH_2$
43	C_3H_7·(propyl ketones, $ArCH_2$—C_3H_7), ·(methyl ketones, G, where G = various functional groups), CH_2=CH—O·, (CH_3· and CH_2=CH_2), HCNO
44	CH_2=CHOH, CO_2 (esters, anhydrides), N_2O, $CONH_2$, $NHCH_2CH_3$
45	CH_3CHOH, CH_3CH_2O·(ethyl esters), CO_2H, $CH_3CH_2NH_2$
46	(H_2O and CH_2=CH_2), CH_3CH_2OH, ·NO_2 ($ArNO_2$)
47	CH_3S·
48	CH_3SH, SO (sulfoxides), O_3
49	·CH_2Cl
51	·CHF_2
52	C_4H_4, C_2N_2
53	C_4H_5
54	CH_2=CH—CH=CH_2
55	CH_2=$CHCHCH_3$

APPENDIX C *(Continued)*

Molecular Ion Minus	Fragment Lost (Inference Structure)
56	$CH_2{=}CHCH_2CH_3$, $CH_3CH{=}CHCH_3$, 2CO
57	$C_4H_9\cdot$ (butyl ketones), C_2H_5CO (ethyl ketones, EtC=OG, G = various structural units)
58	$\cdot NCS$, (NO + CO), CH_3COCH_3, C_4H_{10}
59	
60	C_3H_7OH, $CH_2{=}C(OH)_2$ (acetate esters)[a]
61	
62	(H_2S and $CH_2{=}CH_2$)
63	$\cdot CH_2CH_2Cl$
64	C_5H_4, S_2, SO_2
68	
69	$CF_3\cdot$, $C_5H_9\cdot$
71	$C_5H_{11}\cdot$
73	
74	C_4H_9OH
75	C_6H_3
76	C_6H_4, CS_2
77	C_6H_5, CS_2H
78	C_6H_6, CS_2H_2, C_5H_4N
79	$Br\cdot$, C_5H_5N
80	HBr
85	$\cdot CClF_2$
100	$CF_2{=}CF_2$
119	$CF_3{-}CF_2\cdot$
122	C_6H_5COOH
127	$I\cdot$
128	HI

[a] McLafferty rearrangement.

Common GC-MS Contaminants

Ions (m/z)	Compound	Possible source
18, 28, 32, 44 or 14, 16	H_2O, N_2, O_2, CO_2 or N, O	Residual air and water, air leaks, out gassing from Vespel ferrules
31, 51, 69, 100, 119, 131, 169, 181, 214, 219, 264, 376, 414,426, 464, 502, 576, 614	PFTBA and related ions	PFTBA (tuning compound)
31	Methanol	Cleaning solvent
43, 58	Acetone	Cleaning solvent
78	Benzene	Cleaning solvent
91, 92	Toluene or xylene	Cleaning solvent
105, 106	Xylene	Cleaning solvent
151, 153	Trichloroethane	Cleaning solvent
69	Fore line pump oil or PFTBA	Fore line pump oil vapor or calibration valve leak
73, 147, 207, 221, 281, 295, 355,429	Dimethylpolysiloxane	Septum bleed or methyl silicone column bleed
77, 94, 115, 141, 168, 170, 262, 354, 446	Diffusion pump fluid and related ions	Diffusion pump fluid
149	Plasticizer (phthalates)	Vacuum seals (O-rings) damaged-by high temperatures, vinyl gloves
Peaks spaced 14 amu apart	Hydrocarbons	Fingerprints, fore line pump oil

To convert any high-resolution mass into a molecular formula, visit the calculator at massformula.maresh.info.

APPENDIX A FORMULA MASSES (FM) FOR VARIOUS COMBINATIONS OF CARBON, HYDROGEN, NITROGEN, AND OXYGEN[a]

	FM		FM		FM		FM
12		H_4N_2	32.0375	C_2H_6O	46.0419	CH_3N_2O	59.0246
C	12.0000	CH_4O	32.0262	**47**		CH_5N_3	59.0484
13		**33**		HNO_2	47.0007	$C_2H_3O_2$	59.0133
CH	13.0078	HO_2	32.9976	CH_3O_2	47.0133	C_2H_5NO	59.0371
14		H_3NO	33.0215	CH_5NO	47.0371	$C_2H_7N_2$	59.0610
N	14.0031	**34**		**48**		C_3H_7O	59.0497
CH_2	14.0157	H_2O_2	34.0054	O_3	47.9847	C_3H_9N	59.0736
15		**38**		H_2NO_2	48.0085	**60**	
HN	15.0109	C_3H_2	38.0157	H_4N_2O	48.0324	CH_2NO_2	60.0085
CH_3	15.0235	**39**		CH_4O_2	48.0211	CH_4N_2O	60.0324
16		C_2HN	39.0109	**49**		CH_6N_3	60.0563
O	15.9949	C_3H_3	39.0235	H_3NO_2	49.0164	$C_2H_4O_2$	60.0211
H_2N	16.0187	**40**		**52**		C_2H_6NO	60.0450
CH_4	16.0313	C_2H_2N	40.0187	C_4H_4	52.0313	$C_2H_8N_2$	60.0688
17		C_3H_4	40.0313	**53**		C_3H_8O	60.0575
HO	17.0027	**41**		C_3H_3N	53.0266	C_5	60.0000
H_3N	17.0266	CHN_2	41.0140	C_4H_5	53.0391	**61**	
18		C_2H_3N	41.0266	**54**		CH_3NO_2	61.0164
H_2O	18.0106	C_3H_5	41.0391	$C_2H_2N_2$	54.0218	CH_5N_2O	61.0402
24		**42**		C_3H_2O	54.0106	CH_7N_3	61.0641
C_2	24.0000	N_3	42.0093	C_3H_4N	54.0344	$C_2H_5O_2$	61.0289
26		CNO	41.9980	C_4H_6	54.0470	C_2H_7NO	61.0528
CN	26.0031	CH_2N_2	42.0218	**55**		**62**	
C_2H_2	26.0157	C_2H_2O	42.0106	$C_2H_3N_2$	55.0297	CH_2O_3	62.0003
27		C_2H_4N	42.0344	C_3H_3O	55.0184	CH_4NO_2	62.0242
CHN	27.0109	C_3H_6	42.0470	C_3H_5N	55.0422	CH_6N_2O	62.0480
C_2H_3	27.0235	**43**		C_4H_7	55.0548	$C_2H_6O_2$	62.0368
28		HN_3	43.0170	**56**		**63**	
N_2	28.0062	CHNO	43.0058	C_2O_2	55.9898	HNO_3	62.9956
CO	27.9949	CH_3N_2	43.0297	C_2H_2NO	56.0136	CH_2NO_2	63.0320
CH_2N	28.0187	C_2H_3O	43.0184	$C_2H_4N_2$	56.0375	**64**	
C_2H_4	28.0313	C_2H_5N	43.0422	C_3H_4O	56.0262	C_5H_4	64.0313
29		C_3H_7	43.0548	C_3H_6N	56.0501	**65**	
HN_2	29.0140	**44**		C_4H_8	56.0626	C_4H_3N	65.0266
CHO	29.0027	N_2O	44.0011	**57**		C_5H_5	65.0391
CH_3N	29.0266	CO_2	43.9898	C_2H_3NO	57.0215	**66**	
C_2H_5	29.0391	CH_2NO	44.0136	$C_2H_5N_2$	57.0453	C_4H_4N	66.0344
30		CH_4N_2	44.0375	C_3H_5O	57.0340	C_5H_6	66.0470
NO	29.9980	C_2H_4O	44.0262	C_3H_7N	57.0579	**67**	
H_2N_2	30.0218	C_2H_6N	44.0501	C_4H_9	57.0705	$C_3H_3N_2$	67.0297
CH_2O	30.0106	C_3H_8	44.0626	**58**		C_4H_3O	67.0184
CH_4N	30.0344	**45**		CH_2N_2O	58.0167	C_4H_5N	67.0422
C_2H_6	30.0470	CH_3NO	45.0215	CH_4N_3	58.0406	C_5H_7	67.0548
31		CH_5N_2	45.0453	$C_2H_2O_2$	58.0054	**68**	
HNO	31.0058	C_2H_5O	45.0340	C_2H_4NO	58.0293	$C_3H_4N_2$	68.0375
H_3N_2	31.0297	C_2H_7N	45.0579	$C_2H_6N_2$	58.0532	C_4H_4O	68.0262
CH_3O	31.0184	**46**		C_3H_6O	58.0419	C_4H_6N	68.0501
CH_5N	31.0422	NO_2	45.9929	C_3H_8N	58.0657	C_5H_8	68.0626
32		CH_2O_2	46.0054	C_4H_{10}	58.0783	**69**	
O_2	31.9898	CH_4NO	46.0293	**59**		C_3H_3NO	69.0215
H_2NO	32.0136	CH_6N_2	46.0532	$CHNO_2$	59.0007	$C_3H_5N_2$	69.0453

[a] With permission from J.H. Beynon, *Mass Spectrometry and its Application to Organic Chemistry*, Amsterdam, 1960. The columns headed FM contain the *formula masses* based on the exact mass of the most abundant isotope of each element; these masses are based on the most abundant isotope of carbon having a mass of 12.0000. Note that the table includes only C, H, N, and O.

APPENDIX A *(Continued)*

FM		FM		FM		FM	
C_4H_5O	69.0340	$C_2H_6NO_2$	76.0399	$C_4H_9N_2$	85.0767	$C_3H_8NO_2$	90.0555
C_4H_7N	69.0579	$C_2H_8N_2O$	76.0637	C_5H_9O	85.0653	$C_3H_{10}N_2O$	90.0794
C_5H_9	69.0705	$C_3H_8O_2$	76.0524	$C_5H_{11}N$	85.0892	$C_4H_{10}O_2$	90.0681
70		C_5H_2N	76.0187	C_6H_{13}	85.1018	C_7H_6	90.0470
$C_2H_4N_3$	70.0406	C_6H_4	76.0313	**86**		**91**	
$C_3H_2O_2$	70.0054	**77**		$C_2H_2N_2O_2$	86.0116	$C_2H_3O_4$	91.0031
C_3H_4NO	70.0293	CH_3NO_3	77.0113	$C_2H_4N_3O$	86.0355	$C_2H_5NO_3$	91.0269
$C_3H_6N_2$	70.0532	$C_2H_5O_3$	77.0238	$C_2H_6N_4$	86.0594	$C_2H_7N_2O_2$	91.0508
C_4H_6O	70.0419	$C_2H_7NO_2$	77.0477	$C_3H_4NO_2$	86.0242	$C_2H_9N_3O$	91.0746
C_4H_8N	70.0657	C_6H_5	77.0391	$C_3H_6N_2O$	86.0480	$C_3H_7O_3$	91.0395
C_5H_{10}	70.0783	**78**		$C_3H_8N_3$	86.0719	$C_3H_9NO_2$	91.0634
71		$C_2H_6O_3$	78.0317	$C_4H_6O_2$	86.0368	C_6H_5N	91.0422
$C_2H_3N_2O$	71.0246	C_5H_4N	78.0344	C_4H_8NO	86.0606	C_7H_7	91.0548
$C_2H_5N_3$	71.0484	C_6H_6	78.0470	$C_4H_{10}N_2$	86.0845	**92**	
$C_3H_3O_2$	71.0133	**79**		$C_5H_{10}O$	86.0732	$C_2H_4O_4$	92.0109
C_3H_5NO	71.0371	C_5H_5N	79.0422	$C_5H_{12}N$	86.0970	$C_2H_6NO_3$	92.0348
$C_3H_7N_2$	71.0610	C_6H_7	79.0548	C_6H_{14}	86.1096	$C_2H_8N_2O_2$	92.0586
C_4H_7O	71.0497	**80**		**87**		$C_3H_8O_3$	92.0473
C_4H_9N	71.0736	$C_3H_2N_3$	80.0249	$C_2H_7N_4$	87.0672	C_6H_4O	92.0262
C_5H_{11}	71.0861	$C_4H_4N_2$	80.0375	$C_3H_3O_3$	87.0082	C_6H_6N	92.0501
72		C_5H_4O	80.0262	$C_3H_5NO_2$	87.0320	C_7H_8	92.0626
$C_2H_2NO_2$	72.0085	C_5H_6N	80.0501	$C_3H_7N_2O$	87.0559	**93**	
$C_2H_4N_2O$	72.0324	C_6H_8	80.0626	$C_3H_9N_3$	87.0798	$C_2H_5O_4$	93.0187
$C_2H_6N_3$	72.0563	**81**		$C_4H_7O_2$	87.0446	$C_2H_7NO_3$	92.0426
$C_3H_4O_2$	72.0211	$C_3H_3N_3$	81.0328	C_4H_9NO	87.0684	$C_5H_5N_2$	93.0453
C_3H_6NO	72.0449	$C_4H_5N_2$	81.0453	$C_4H_{11}N_2$	87.0923	C_6H_5O	93.0340
$C_3H_8N_2$	72.0688	C_5H_5O	81.0340	$C_5H_{11}O$	87.0810	C_6H_7N	93.0579
C_4H_8O	72.0575	C_5H_7N	81.0579	$C_5H_{13}N$	87.1049	C_7H_9	93.0705
$C_4H_{10}N$	72.0814	C_6H_9	81.0705	**88**		**94**	
C_5H_{12}	72.0939	**82**		$C_2H_4N_2O_2$	88.0273	$C_2H_6O_4$	94.0266
73		$C_3H_4N_3$	82.0406	$C_2H_6N_3O$	88.0511	$C_4H_4N_3$	94.0406
$C_2H_3NO_2$	73.0164	C_4H_4NO	82.0293	$C_2H_8N_4$	88.0750	C_5H_4NO	94.0293
$C_2H_5N_2O$	73.0402	$C_4H_6N_2$	82.0532	$C_3H_4O_3$	88.0160	$C_5H_6N_2$	94.0532
$C_2H_7N_3$	73.0641	C_5H_6O	82.0419	$C_3H_6NO_2$	88.0399	C_6H_6O	94.0419
$C_3H_5O_2$	73.0289	C_5H_8N	82.0657	$C_3H_8N_2O$	88.0637	C_6H_8N	94.0657
C_3H_7NO	73.0528	C_6H_{10}	82.0783	$C_3H_{10}N_3$	88.0876	C_7H_{10}	94.0783
$C_3H_9N_2$	73.0767	**83**		$C_4H_8O_2$	88.0524	**95**	
C_4H_9O	73.0653	$C_3H_5N_3$	83.0484	$C_4H_{10}NO$	88.0763	$C_4H_5N_3$	95.0484
$C_4H_{11}N$	73.0892	$C_4H_3O_2$	83.0133	$C_4H_{12}N_2$	88.1001	C_5H_5NO	95.0371
74		C_4H_5NO	83.0371	$C_5H_{12}O$	88.0888	$C_5H_7N_2$	95.0610
$C_2H_2O_3$	74.0003	$C_4H_7N_2$	83.0610	**89**		C_6H_7O	95.0497
$C_2H_4NO_2$	74.0242	C_5H_7O	83.0497	$C_2H_5N_2O_2$	89.0351	C_6H_9N	95.0736
$C_2H_6N_2O$	74.0480	C_5H_9N	83.0736	$C_2H_7N_3O$	89.0590	C_7H_{11}	95.0861
$C_2H_8N_3$	74.0719	C_6H_{11}	83.0861	$C_2H_9N_4$	89.0829	**96**	
$C_3H_6O_2$	74.0368	**84**		$C_3H_5O_3$	89.0238	$C_4H_6N_3$	96.0563
C_3H_8NO	74.0606	$C_3H_6N_3$	84.0563	$C_3H_7NO_2$	89.0477	$C_5H_4O_2$	96.0211
$C_3H_{10}N_2$	74.0845	$C_4H_4O_2$	84.0211	$C_3H_9N_2O$	89.0715	C_5H_6NO	96.0449
$C_4H_{10}O$	74.0732	C_4H_6NO	84.0449	$C_3H_{11}N_3$	89.0954	$C_5H_8N_2$	96.0688
75		$C_4H_8N_2$	84.0688	$C_4H_9O_2$	89.0603	C_6H_8O	96.0575
$C_2H_3O_3$	75.0082	C_5H_8O	84.0575	$C_4H_{11}NO$	89.0841	$C_6H_{10}N$	96.0814
$C_2H_5NO_2$	75.0320	$C_5H_{10}N$	84.0814	C_7H_5	89.0391	C_7H_{12}	96.0939
$C_2H_7N_2O$	75.0559	C_6H_{12}	84.0939	**90**		**97**	
$C_2H_9N_3$	75.0798	**85**		$C_2H_4NO_3$	90.0191	$C_3H_5N_4$	97.0515
$C_3H_7O_2$	75.0446	$C_3H_5N_2O$	85.0402	$C_2H_6N_2O_2$	90.0429	$C_4H_5N_2O$	97.0402
C_3H_9NO	75.0684	$C_3H_7N_3$	85.0641	$C_2H_8N_3O$	90.0668	$C_5H_5O_2$	97.0289
76		$C_4H_5O_2$	85.0289	$C_2H_{10}N_4$	90.0907	C_5H_7NO	97.0528
$C_2H_4O_3$	76.0160	C_4H_7NO	85.0528	$C_3H_6O_3$	90.0317	$C_5H_9N_2$	97.0767

APPENDIX A *(Continued)*

FM		FM		FM		FM	
C_6H_9O	97.0653	**102**		$C_4H_{11}NO_2$	105.0790	$C_4H_6N_4$	110.0594
$C_6H_{11}N$	97.0892	$C_2H_6N_4O$	102.0542	$C_6H_5N_2$	105.0453	$C_5H_6N_2O$	110.0480
C_7H_{13}	97.1018	$C_3H_4NO_3$	102.0191	C_7H_5O	105.0340	$C_5H_8N_3$	110.0719
98		$C_3H_6N_2O_2$	102.0429	C_7H_7N	105.0579	$C_6H_6O_2$	110.0368
$C_3H_4N_3O$	98.0355	$C_3H_8N_3O$	102.0668	C_8H_9	105.0705	C_6H_8NO	110.0606
$C_3H_6N_4$	98.0594	$C_3H_{10}N_4$	102.0907	**106**		$C_6H_{10}N_2$	110.0845
$C_4H_4NO_2$	98.0242	$C_4H_6O_3$	102.0317	$C_2H_4NO_4$	106.0140	$C_7H_{10}O$	110.0732
$C_4H_6N_2O$	98.0480	$C_4H_8NO_2$	102.0555	$C_2H_6N_2O_3$	106.0379	$C_7H_{12}N$	110.0970
$C_4H_8N_3$	98.0719	$C_4H_{10}N_2O$	102.0794	$C_2H_8N_3O_2$	106.0617	C_8H_{14}	110.1096
$C_5H_6O_2$	98.0368	$C_4H_{12}N_3$	102.1032	$C_2H_{10}N_4O$	106.0856	**111**	
C_5H_8NO	98.0606	$C_5H_{10}O_2$	102.0681	$C_3H_6O_4$	106.0266	$C_4H_5N_3O$	111.0433
$C_5H_{10}N_2$	98.0845	$C_5H_{12}NO$	102.0919	$C_3H_8NO_3$	106.0504	$C_4H_7N_4$	111.0672
$C_6H_{10}O$	98.0732	$C_5H_{14}N_2$	102.1158	$C_3H_{10}N_2O_2$	106.0743	$C_5H_5NO_2$	111.0320
$C_6H_{12}N$	98.0970	$C_6H_{14}O$	102.1045	$C_4H_{10}O_3$	106.0630	$C_5H_7N_2O$	111.0559
C_7H_{14}	98.1096	C_8H_6	102.0470	C_6H_4NO	106.0293	$C_5H_9N_3$	111.0789
99		**103**		$C_6H_6N_2$	106.0532	$C_6H_7O_2$	111.0446
$C_3H_5N_3O$	99.0433	$C_2H_5N_3O_2$	103.0382	C_7H_6O	106.0419	C_6H_9NO	111.0684
$C_3H_7N_4$	99.0672	$C_2H_7N_4O$	103.0621	C_7H_8N	106.0657	$C_6H_{11}N_2$	111.0923
$C_4H_3O_3$	99.0082	$C_3H_3O_4$	103.0031	C_8H_{10}	106.0783	$C_7H_{11}O$	111.0810
$C_4H_5NO_2$	99.0320	$C_3H_5NO_3$	103.0269	**107**		$C_7H_{13}N$	111.1049
$C_4H_7N_2O$	99.0559	$C_3H_7N_2O_2$	103.0508	$C_2H_5NO_4$	107.0218	C_8H_{15}	111.1174
$C_4H_9N_3$	99.0798	$C_3H_9N_3O$	103.0746	$C_2H_7N_2O_3$	107.0457	**112**	
$C_5H_7O_2$	99.0446	$C_3H_{11}N_4$	103.0985	$C_2H_9N_3O_2$	107.0695	$C_3H_4N_4O$	112.0386
C_5H_9NO	99.0685	$C_4H_7O_3$	103.0395	$C_3H_7O_4$	107.0344	$C_4H_4N_2O_2$	112.0273
$C_5H_{11}N_2$	99.0923	$C_4H_9NO_2$	103.0634	$C_3H_9NO_3$	107.0583	$C_4H_6N_3O$	112.0511
$C_6H_{11}O$	99.0810	$C_4H_{11}N_2O$	103.0872	$C_5H_5N_3$	107.0484	$C_4H_8N_4$	112.0750
$C_6H_{13}N$	99.1049	$C_4H_{13}N_3$	103.1111	C_6H_5NO	107.0371	$C_5H_4O_3$	112.0160
C_7H_{15}	99.1174	$C_5H_{11}O_2$	103.0759	$C_6H_7N_2$	107.0610	$C_5H_6NO_2$	112.0399
100		$C_5H_{13}NO$	103.0998	C_7H_7O	107.0497	$C_5H_8N_2O$	112.0637
$C_2H_4N_4O$	100.0386	C_7H_5N	103.0422	C_7H_9N	107.0736	$C_5H_{10}N_3$	112.0876
$C_3H_4N_2O_2$	100.0273	C_8H_7	103.0548	C_8H_{11}	107.0861	$C_6H_8O_2$	112.0524
$C_3H_6N_3O$	100.0511	**104**		**108**		$C_6H_{10}NO$	112.0763
$C_3H_8N_4$	100.0750	$C_2H_4N_2O_3$	104.0222	$C_2H_6NO_4$	108.0297	$C_6H_{12}N_2$	112.1001
$C_4H_4O_3$	100.0160	$C_2H_6N_3O_2$	104.0460	$C_2H_8N_2O_3$	108.0535	$C_7H_{12}O$	112.0888
$C_4H_6NO_2$	100.0399	$C_2H_8N_4O$	104.0699	$C_3H_8O_4$	108.0422	$C_7H_{14}N$	112.1127
$C_4H_8N_2O$	100.0637	$C_3H_4O_4$	104.0109	$C_4H_4N_4$	108.0437	C_8H_{16}	112.1253
$C_4H_{10}N_3$	100.0876	$C_3H_6NO_3$	104.0348	$C_5H_4N_2O$	108.0324	**113**	
$C_5H_8O_2$	100.0524	$C_3H_8N_2O_2$	104.0586	$C_5H_6N_3$	108.0563	$C_3H_5N_4O$	113.0464
$C_5H_{10}NO$	100.0763	$C_3H_{10}N_3O$	104.0825	$C_6H_4O_2$	108.0211	$C_4H_5N_2O_2$	113.0351
$C_5H_{12}N_2$	100.1001	$C_3H_{12}N_4$	104.1063	C_6H_6NO	108.0449	$C_4H_7N_3O$	113.0590
$C_6H_{12}O$	100.0888	$C_4H_8O_3$	104.0473	$C_6H_8N_2$	108.0688	$C_4H_9N_4$	113.0829
$C_6H_{14}N$	100.1127	$C_4H_{10}NO_2$	104.0712	C_7H_8O	108.0575	$C_5H_5O_3$	113.0238
C_7H_{16}	100.1253	$C_4H_{12}N_2O$	104.0950	$C_7H_{10}N$	108.0814	$C_5H_7NO_2$	113.0477
101		$C_5H_{12}O_2$	104.0837	C_8H_{12}	108.0939	$C_5H_9N_2O$	113.0715
$C_3H_3NO_3$	101.0113	$C_6H_4N_2$	104.0375	**109**		$C_5H_{11}N_3$	113.0954
$C_3H_5N_2O_2$	101.0351	C_7H_4O	104.0262	$C_2H_7NO_4$	109.0375	$C_6H_9O_2$	113.0603
$C_3H_7N_3O$	101.0590	C_7H_6N	104.0501	$C_4H_5N_4$	109.0515	$C_6H_{11}NO$	113.0841
$C_3H_9N_4$	101.0829	C_8H_8	104.0626	$C_5H_5N_2O$	109.0402	$C_6H_{13}N_2$	113.1080
$C_4H_5O_3$	101.0238	**105**		$C_5H_7N_3$	109.0641	$C_7H_{13}O$	113.0967
$C_4H_7NO_2$	101.0477	$C_2H_5N_2O_3$	105.0300	$C_6H_5O_2$	109.0289	$C_7H_{15}N$	113.1205
$C_4H_9N_2O$	101.0715	$C_2H_7N_3O_2$	105.0539	C_6H_7NO	109.0528	C_8H_{17}	113.1331
$C_4H_{11}N_3$	101.0954	$C_2H_9N_4O$	105.0777	$C_6H_9N_2$	109.0767	**114**	
$C_5H_9O_2$	101.0603	$C_3H_5O_4$	105.0187	C_7H_9O	109.0653	$C_3H_6N_4O$	114.0542
$C_5H_{11}NO$	101.0841	$C_3H_7NO_3$	105.0426	$C_7H_{11}N$	109.0892	$C_4H_4NO_3$	114.0191
$C_5H_{13}N_2$	101.1080	$C_3H_9N_2O_2$	105.0664	C_8H_{13}	109.1018	$C_4H_6N_2O_2$	114.0429
$C_6H_{13}O$	101.0967	$C_3H_{11}N_3O$	105.0903	**110**		$C_4H_8N_3O$	114.0668
$C_6H_{15}N$	101.1205	$C_4H_9O_3$	105.0552	$C_4H_4N_3O$	110.0355	$C_4H_{10}N_4$	114.0907

APPENDIX A *(Continued)*

FM		FM		FM		FM	
$C_5H_6O_3$	114.0317	$C_4H_9N_2O_2$	117.0664	$C_4H_8O_4$	120.0422	C_7H_9NO	123.0684
$C_5H_8NO_2$	114.0555	$C_4H_{11}N_3O$	117.0903	$C_4H_{10}NO_3$	120.0661	$C_7H_{11}N_2$	123.0923
$C_5H_{10}N_2O$	114.0794	$C_4H_{13}N_4$	117.1142	$C_4H_{12}N_2O_2$	120.0899	$C_8H_{11}O$	123.0810
$C_5H_{12}N_3$	114.1032	$C_5H_9O_3$	117.0552	$C_5H_4N_4$	120.0437	$C_8H_{13}N$	123.1049
$C_6H_{10}O_2$	114.0681	$C_5H_{11}NO_2$	117.0790	$C_5H_{12}O_3$	120.0786	C_9H_{15}	123.1174
$C_6H_{12}NO$	114.0919	$C_5H_{13}N_2O$	117.1029	$C_6H_4N_2O$	120.0324	**124**	
$C_6H_{14}N_2$	114.1158	$C_5H_{15}N_3$	117.1267	$C_6H_6N_3$	120.0563	$C_2H_8N_2O_4$	124.0484
$C_7H_{14}O$	114.1045	$C_6H_{13}O_2$	117.0916	C_7H_6NO	120.0449	$C_4H_4N_4O$	124.0386
$C_7H_{16}N$	114.1284	$C_6H_{15}NO$	117.1154	$C_7H_8N_2$	120.0688	$C_5H_4N_2O_2$	124.0273
C_8H_{18}	114.1409	C_8H_7N	117.0579	C_8H_8O	120.0575	$C_5H_6N_3O$	124.0511
C_9H_6	114.0470	C_9H_9	117.0705	$C_8H_{10}N$	120.0814	$C_5H_8N_4$	124.0750
115		**118**		C_9H_{12}	120.0939	$C_6H_4O_3$	124.0160
$C_3H_5N_3O_2$	115.0382	$C_2H_4N_3O_3$	118.0253	**121**		$C_6H_6NO_2$	124.0399
$C_3H_7N_4O$	115.0621	$C_2H_6N_4O_2$	118.0491	$C_2H_5N_2O_4$	121.0249	$C_6H_8N_2O$	124.0637
$C_4H_5NO_3$	115.0269	$C_3H_4NO_4$	118.0140	$C_2H_7N_3O_3$	121.0488	$C_6H_{10}N_3$	124.0876
$C_4H_7N_2O_2$	115.0508	$C_3H_6N_2O_3$	118.0379	$C_2H_9N_4O_2$	121.0726	$C_7H_8O_2$	124.0524
$C_4H_9N_3O$	115.0746	$C_3H_8N_3O_2$	118.0617	$C_3H_7NO_4$	121.0375	$C_7H_{10}NO$	124.0763
$C_4H_{11}N_4$	115.0985	$C_3H_{10}N_4O$	118.0856	$C_3H_9N_2O_3$	121.0614	$C_7H_{12}N_2$	124.1001
$C_5H_7O_3$	115.0395	$C_4H_6O_4$	118.0266	$C_3H_{11}N_3O_2$	121.0852	C_8N_2	124.0062
$C_5H_9NO_2$	115.0634	$C_4H_8NO_3$	118.0504	$C_4H_9O_4$	121.0501	$C_8H_{12}O$	124.0888
$C_5H_{11}N_2O$	115.0872	$C_4H_{10}N_2O_2$	118.0743	$C_4H_{11}NO_3$	121.0739	$C_8H_{14}N$	124.1127
$C_5H_{13}N_3$	115.1111	$C_4H_{12}N_3O$	118.0981	$C_5H_5N_4$	121.0515	C_9H_{16}	124.1253
$C_6H_{11}O_2$	115.0759	$C_4H_{14}N_4$	118.1220	$C_6H_5N_2O$	121.0402	**125**	
$C_6H_{13}NO$	115.0998	$C_5H_{10}O_3$	118.0630	$C_6H_7N_3$	121.0641	$C_4H_3N_3O_2$	125.0226
$C_6H_{15}N_2$	115.1236	$C_5H_{12}NO_2$	118.0868	$C_7H_5O_2$	121.0289	$C_4H_5N_4O$	125.0464
$C_7H_{15}O$	115.1123	$C_5H_{14}N_2O$	118.1107	C_7H_7NO	121.0528	$C_5H_5N_2O_2$	125.0351
$C_7H_{17}N$	115.1362	$C_6H_{14}O_2$	118.0994	$C_7H_9N_2$	121.0767	$C_5H_7N_3O$	125.0590
C_9H_7	115.0548	$C_7H_6N_2$	118.0532	C_8H_9O	121.0653	$C_5H_9N_4$	125.0829
116		C_8H_6O	118.0419	$C_8H_{11}N$	121.0892	$C_6H_5O_3$	125.0238
$C_2H_4N_4O_2$	116.0335	C_8H_8N	118.0657	C_9H_{13}	121.1018	$C_6H_7NO_2$	125.0477
$C_3H_4N_2O_3$	116.0222	C_9H_{10}	118.0783	**122**		$C_6H_9N_2O$	125.0715
$C_3H_6N_3O_2$	116.0460	**119**		$C_2H_6N_2O_4$	122.0328	$C_6H_{11}N_3$	125.0954
$C_3H_8N_4O$	116.0699	$C_2H_5N_3O_3$	119.0331	$C_2H_8N_3O_3$	122.0566	$C_7H_9O_2$	125.0603
$C_4H_4O_4$	116.0109	$C_2H_7N_4O_2$	119.0570	$C_2H_{10}N_4O_2$	122.0805	$C_7H_{11}NO$	125.0841
$C_4H_6NO_3$	116.0348	$C_3H_5NO_4$	119.0218	$C_3H_8NO_4$	122.0453	$C_7H_{13}N_2$	125.1080
$C_4H_8N_2O_2$	116.0586	$C_3H_7N_2O_3$	119.0457	$C_3H_{10}N_2O_3$	122.0692	$C_8H_{13}O$	125.0967
$C_4H_{10}N_3O$	116.0825	$C_3H_9N_3O_2$	119.0695	$C_4H_{10}O_4$	122.0579	$C_8H_{15}N$	125.1205
$C_4H_{12}N_4$	116.1063	$C_3H_{11}N_4O$	119.0934	$C_5H_6N_4$	122.0594	C_9H_{17}	125.1331
$C_5H_8O_3$	116.0473	$C_4H_7O_4$	119.0344	$C_6H_4NO_2$	122.0242	**126**	
$C_5H_{10}NO_2$	116.0712	$C_4H_9NO_3$	119.0583	$C_6H_6N_2O$	122.0480	$C_3H_2N_4O_2$	126.0178
$C_5H_{12}N_2O$	116.0950	$C_4H_{11}N_2O_2$	119.0821	$C_6H_8N_3$	122.0719	$C_4H_4N_3O_2$	126.0304
$C_5H_{14}N_3$	116.1189	$C_4H_{13}N_3O$	119.1060	$C_7H_6O_2$	122.0368	$C_4H_6N_4O$	126.0542
$C_6H_{12}O_2$	116.0837	$C_5H_{11}O_3$	119.0708	C_7H_8NO	122.0606	$C_5H_4NO_3$	126.0191
$C_6H_{14}NO$	116.1076	$C_5H_{13}NO_2$	119.0947	$C_7H_{10}N_2$	122.0845	$C_5H_6N_2O_2$	126.0429
$C_6H_{16}N_2$	116.1315	$C_6H_5N_3$	119.0484	$C_8H_{10}O$	122.0732	$C_5H_8N_3O$	126.0668
$C_7H_4N_2$	116.0375	C_7H_5NO	119.0371	$C_8H_{12}N$	122.0970	$C_5H_{10}N_4$	126.0907
$C_7H_{16}O$	116.1202	$C_7H_7N_2$	119.0610	C_9H_{14}	122.1096	$C_6H_6O_3$	126.0317
C_8H_6N	116.0501	C_8H_7O	119.0497	**123**		$C_6H_8NO_2$	126.0555
C_9H_8	116.0626	C_8H_9N	119.0736	$C_2H_7N_2O_4$	123.0406	$C_6H_{10}N_2O$	126.0794
117		C_9H_{11}	119.0861	$C_2H_9N_3O_3$	123.0644	$C_6H_{12}N_3$	126.1032
$C_2H_5N_4O_2$	117.0413	**120**		$C_3H_9NO_4$	123.0532	$C_7H_{10}O_2$	126.0681
$C_3H_3NO_4$	117.0062	$C_2H_6N_3O_3$	120.0410	$C_5H_5N_3O$	123.0433	$C_7H_{12}NO$	126.0919
$C_3H_5N_2O_3$	117.0300	$C_2H_8N_4O_2$	120.0648	$C_5H_7N_4$	123.0672	$C_7H_{14}N_2$	126.1158
$C_3H_7N_3O_2$	117.0539	$C_3H_6NO_4$	120.0297	$C_6H_5NO_2$	123.0320	$C_8H_{14}O$	126.1045
$C_3H_9N_4O$	117.0777	$C_3H_8N_2O_3$	120.0535	$C_6H_7N_2O$	123.0559	$C_8H_{16}N$	126.1284
$C_4H_5O_4$	117.0187	$C_3H_{10}N_3O_2$	120.0774	$C_6H_9N_3$	123.0798	C_9H_{18}	126.1409
$C_4H_7NO_3$	117.0426	$C_3H_{12}N_4O$	120.1012	$C_7H_7O_2$	123.0446	**127**	

APPENDIX A *(Continued)*

FM		FM		FM		FM	
$C_3H_3N_4O_2$	127.0257	$C_8H_{19}N$	129.1519	$C_4H_{10}N_3O_2$	132.0774	C_8H_8NO	134.0606
$C_4H_5N_3O_2$	127.0382	C_9H_7N	129.0579	$C_4H_{12}N_4O$	132.1012	$C_8H_{10}N_2$	134.0845
$C_4H_7N_4O$	127.0621	$C_{10}H_9$	129.0705	$C_5H_8O_4$	132.0422	$C_9H_{10}O$	134.0732
$C_5H_5NO_3$	127.0269	**130**		$C_5H_{10}NO_3$	132.0661	$C_9H_{12}N$	134.0970
$C_5H_7N_2O_2$	127.0508	$C_3H_4N_3O_3$	130.0253	$C_5H_{12}N_2O_2$	132.0899	$C_{10}H_{14}$	134.1096
$C_5H_9N_3O$	127.0746	$C_3H_6N_4O_2$	130.0491	$C_5H_{14}N_3O$	132.1138	**135**	
$C_5H_{11}N_4$	127.0985	$C_4H_4NO_4$	130.0140	$C_5H_{16}N_4$	132.1377	$C_3H_7N_2O_4$	135.0406
$C_6H_7O_3$	127.0395	$C_4H_6N_2O_3$	130.0379	$C_6H_4N_4$	132.0437	$C_3H_9N_3O_3$	135.0644
$C_6H_9NO_2$	127.0634	$C_4H_8N_3O_2$	130.0617	$C_6H_{12}O_3$	132.0786	$C_3H_{11}N_4O_2$	135.0883
$C_6H_{11}N_2O$	127.0872	$C_4H_{10}N_4O$	130.0856	$C_6H_{14}NO_2$	132.1025	$C_4H_9NO_4$	135.0532
$C_6H_{13}N_3$	127.1111	$C_5H_6O_4$	130.0266	$C_6H_{16}N_2O$	132.1264	$C_4H_{11}N_2O_3$	135.0770
$C_7H_{11}O_2$	127.0759	$C_5H_8NO_3$	130.0504	$C_7H_9N_3$	132.0563	$C_4H_{13}N_3O_2$	135.1009
$C_7H_{13}NO$	127.0998	$C_5H_{10}N_2O_2$	130.0743	$C_7H_{16}O_2$	132.1151	$C_5H_3N_4O$	135.0308
$C_7H_{15}N_2$	127.1236	$C_5H_{12}N_3O$	130.0981	C_8H_6NO	132.0449	$C_5H_{11}O_4$	135.0657
$C_8H_{15}O$	127.1123	$C_5H_{14}N_4$	130.1220	$C_8H_8N_2$	132.0688	$C_5H_{13}NO_3$	135.0896
$C_8H_{17}N$	127.1362	$C_6H_{10}O_3$	130.0630	C_9H_8O	132.0575	$C_6H_5N_3O$	135.0433
C_9H_{19}	127.1488	$C_6H_{12}NO_2$	130.0868	$C_9H_{10}N$	132.0814	$C_6H_7N_4$	135.0672
128		$C_6H_{14}N_2O$	130.1107	$C_{10}H_{12}$	132.0939	$C_7H_5NO_2$	135.0320
$C_3H_4N_4O_2$	128.0335	$C_6H_{16}N_3$	130.1346	**133**		$C_7H_7N_2O$	135.0559
$C_4H_4N_2O_3$	128.0222	$C_7H_4N_3$	130.0406	$C_3H_5N_2O_4$	133.0249	$C_7H_9N_3$	135.0798
$C_4H_6N_3O_2$	128.0460	$C_7H_{14}O_2$	130.0994	$C_3H_7N_3O_3$	133.0488	$C_8H_7O_2$	135.0446
$C_4H_8N_4O$	128.0699	$C_7H_{16}NO$	130.1233	$C_3H_9N_4O_2$	133.0726	C_8H_9NO	135.0684
$C_5H_4O_4$	128.0109	$C_7H_{18}N_2$	130.1471	$C_4H_7NO_4$	133.0375	$C_8H_{11}N_2$	135.0923
$C_5H_6NO_3$	128.0348	$C_8H_6N_2$	130.0532	$C_4H_9N_2O_3$	133.0614	$C_9H_{11}O$	135.0810
$C_5H_8N_2O_2$	128.0586	$C_8H_{18}O$	130.1358	$C_4H_{11}N_3O_2$	133.0852	$C_9H_{13}N$	135.1049
$C_5H_{10}N_3O$	128.0825	C_9H_8N	130.0657	$C_4H_{13}N_4O$	133.1091	$C_{10}H_{15}$	135.1174
$C_5H_{12}N_4$	128.1063	$C_{10}H_{10}$	130.0783	$C_5H_9O_4$	133.0501	**136**	
$C_6H_8O_3$	128.0473	**131**		$C_5H_{11}NO_3$	133.0739	$C_3H_8N_2O_4$	136.0484
$C_6H_{10}NO_2$	128.0712	$C_3H_3N_2O_4$	131.0093	$C_5H_{13}N_2O_2$	133.0978	$C_3H_{10}N_3O_3$	136.0723
$C_6H_{12}N_2O$	128.0950	$C_3H_5N_3O_3$	131.0331	$C_5H_{15}N_3O$	133.1216	$C_3H_{12}N_4O_2$	136.0961
$C_6H_{14}N_3$	128.1189	$C_3H_7N_4O_2$	131.0570	$C_6H_5N_4$	133.0515	$C_4H_{10}NO_4$	136.0610
$C_7H_{12}O_2$	128.0837	$C_4H_5NO_4$	131.0218	$C_6H_{13}O_3$	133.0865	$C_4H_{12}N_2O_3$	136.0848
$C_7H_{14}NO$	128.1076	$C_4H_7N_2O_3$	131.0457	$C_6H_{15}NO_2$	133.1103	$C_5H_2N_3O_2$	136.0147
$C_7H_{16}N_2$	128.1315	$C_4H_9N_3O_2$	131.0695	$C_7H_5N_2O$	133.0402	$C_5H_4N_4O$	136.0386
$C_8H_{16}O$	128.1202	$C_4H_{11}N_4O$	131.0934	$C_7H_7N_3$	133.0641	$C_5H_{12}O_4$	136.0735
$C_8H_{18}N$	128.1440	$C_5H_7O_4$	131.0344	C_8H_7NO	133.0528	$C_6H_4N_2O_2$	136.0273
C_9H_{20}	128.1566	$C_5H_9NO_3$	131.0583	$C_8H_9N_2$	133.0767	$C_6H_6N_3O$	136.0511
$C_{10}H_8$	128.0626	$C_5H_{11}N_2O_2$	131.0821	C_9H_9O	133.0653	$C_6H_8N_4$	136.0750
129		$C_5H_{13}N_3O$	131.1060	$C_9H_{11}N$	133.0892	$C_7H_4O_3$	136.0160
$C_3H_3N_3O_3$	129.0175	$C_5H_{15}N_4$	131.1298	$C_{10}H_{13}$	133.1018	$C_7H_6NO_2$	136.0399
$C_3H_5N_4O_2$	129.0413	$C_6H_{11}O_3$	131.0708	**134**		$C_7H_8N_2O$	136.0637
$C_4H_5N_2O_3$	129.0300	$C_6H_{13}NO_2$	131.0947	$C_3H_6N_2O_4$	134.0328	$C_7H_{10}N_3$	136.0876
$C_4H_7N_3O_2$	129.0539	$C_6H_{15}N_2O$	131.1185	$C_3H_8N_3O_3$	134.0566	$C_8H_8O_2$	136.0524
$C_4H_9N_4O$	129.0777	$C_6H_{17}N_3$	131.1424	$C_3H_{10}N_4O_2$	134.0805	$C_8H_{10}NO$	136.0763
$C_5H_5O_4$	129.0187	$C_7H_5N_3$	131.0484	$C_4H_8NO_4$	134.0453	$C_8H_{12}N_2$	136.1001
$C_5H_7NO_3$	129.0426	$C_7H_{15}O_2$	131.1072	$C_4H_{10}N_2O_3$	134.0692	$C_9H_{12}O$	136.0888
$C_5H_9N_2O_2$	129.0664	$C_7H_{17}NO$	131.1311	$C_4H_{12}N_3O_2$	134.0930	$C_9H_{14}N$	136.1127
$C_5H_{11}N_3O$	129.0903	$C_8H_7N_2$	131.0610	$C_4H_{14}N_4O$	134.1169	$C_{10}H_{16}$	136.1253
$C_5H_{13}N_4$	129.1142	C_9H_7O	131.0497	$C_5H_{10}O_4$	134.0579	**137**	
$C_6H_9O_3$	129.0552	C_9H_9N	131.0736	$C_5H_{12}NO_3$	134.0817	$C_3H_9N_2O_4$	137.0563
$C_6H_{11}NO_2$	129.0790	$C_{10}H_{11}$	131.0861	$C_5H_{14}N_2O_2$	134.1056	$C_3H_{11}N_3O_3$	137.0801
$C_6H_{13}N_2O$	129.1029	**132**		$C_6H_4N_3O$	134.0355	$C_4H_{11}NO_4$	137.0688
$C_6H_{15}N_3$	129.1267	$C_3H_4N_2O_4$	132.0171	$C_6H_6N_4$	134.0594	$C_5H_3N_3O_2$	137.0226
$C_7H_{13}O_2$	129.0916	$C_3H_6N_3O_3$	132.0410	$C_6H_{14}O_3$	134.0943	$C_5H_5N_4O$	137.0464
$C_7H_{15}NO$	129.1154	$C_3H_8N_4O_2$	132.0648	$C_7H_6N_2O$	134.0480	$C_6H_5N_2O_2$	137.0351
$C_7H_{17}N_2$	129.1393	$C_4H_6NO_4$	132.0297	$C_7H_8N_3$	134.0719	$C_6H_7N_3O$	137.0590
$C_8H_{17}O$	129.1280	$C_4H_8N_2O_3$	132.0535	$C_8H_6O_2$	134.0368	$C_6H_9N_4$	137.0829

APPENDIX A *(Continued)*

FM		FM		FM		FM	
$C_7H_5O_3$	137.0238	$C_6H_8N_2O_2$	140.0586	$C_8H_{16}NO$	142.1233	$C_9H_8N_2$	144.0688
$C_7H_7NO_2$	137.0477	$C_6H_{10}N_3O$	140.0825	$C_8H_{18}N_2$	142.1471	$C_9H_{20}O$	144.1515
$C_7H_9N_2O$	137.0715	$C_6H_{12}N_4$	140.1063	$C_9H_6N_2$	142.0532	$C_{10}H_8O$	144.0575
$C_7H_{11}N_3$	137.0954	$C_7H_8O_3$	140.0473	$C_9H_{18}O$	142.1358	$C_{10}H_{10}N$	144.0814
$C_8H_9O_2$	137.0603	$C_7H_{10}NO_2$	140.0712	$C_9H_{20}N$	142.1597	$C_{11}H_{12}$	144.0939
$C_8H_{11}NO$	137.0841	$C_7H_{12}N_2O$	140.0950	$C_{10}H_8N$	142.0657	**145**	
$C_8H_{13}N_2$	137.1080	$C_7H_{14}N_3$	140.1189	$C_{10}H_{22}$	142.1722	$C_4H_5N_2O_4$	145.0249
$C_9H_{13}O$	137.0967	$C_8H_{12}O_2$	140.0837	$C_{11}H_{10}$	142.0783	$C_4H_7N_3O_3$	145.0488
$C_9H_{15}N$	137.1205	$C_8H_{14}NO$	140.1076	**143**		$C_4H_9N_4O_2$	145.0726
$C_{10}H_{17}$	137.1331	$C_8H_{16}N_2$	140.1315	$C_4H_3N_2O_4$	143.0093	$C_5H_7NO_4$	145.0375
138		$C_9H_{16}O$	140.1202	$C_4H_5N_3O_3$	143.0331	$C_5H_9N_2O_3$	145.0614
$C_3H_{10}N_2O_4$	138.0641	$C_9H_{18}N$	140.1440	$C_4H_7N_4O_2$	143.0570	$C_5H_{11}N_3O_2$	145.0852
$C_5H_4N_3O_2$	138.0304	$C_{10}H_6N$	140.0501	$C_5H_5NO_4$	143.0218	$C_5H_{13}N_4O$	145.1091
$C_5H_6N_4O$	138.0542	$C_{10}H_{20}$	140.1566	$C_5H_7N_2O_3$	143.0457	$C_6H_9O_4$	145.0501
$C_6H_4NO_3$	138.0191	$C_{11}H_8$	140.0626	$C_5H_9N_3O_2$	143.0695	$C_6H_{11}NO_3$	145.0739
$C_6H_6N_2O_2$	138.0429	**141**		$C_5H_{11}N_4O$	143.0934	$C_6H_{13}N_2O_2$	145.0978
$C_6H_8N_3O$	138.0668	$C_4H_3N_3O_3$	141.0175	$C_6H_7O_4$	143.0344	$C_6H_{15}N_3O$	145.1216
$C_6H_{10}N_4$	138.0907	$C_4H_5N_4O_2$	141.0413	$C_6H_9NO_3$	143.0583	$C_6H_{17}N_4$	145.1455
$C_7H_6O_3$	138.0317	$C_5H_3NO_4$	141.0062	$C_6H_{11}N_2O_2$	143.0821	$C_7H_5N_4$	145.0515
$C_7H_8NO_2$	138.0555	$C_5H_5N_2O_3$	141.0300	$C_6H_{13}N_3O$	143.1060	$C_7H_{13}O_3$	145.0865
$C_7H_{10}N_2O$	138.0794	$C_5H_7N_3O_2$	141.0539	$C_6H_{15}N_4$	143.1298	$C_7H_{15}NO_2$	145.1103
$C_7H_{12}N_3$	138.1032	$C_5H_9N_4O$	141.0777	$C_7H_{11}O_3$	143.0708	$C_7H_{17}N_2O$	145.1342
$C_8H_{10}O_2$	138.0681	$C_6H_5O_4$	141.0187	$C_7H_{13}NO_2$	143.0947	$C_7H_{19}N_3$	145.1580
$C_8H_{12}NO$	138.0919	$C_6H_7NO_3$	141.0426	$C_7H_{15}N_2O$	143.1185	$C_8H_5N_2O$	145.0402
$C_8H_{14}N_2$	138.1158	$C_6H_9N_2O_2$	141.0664	$C_7H_{17}N_3$	143.1424	$C_8H_7N_3$	145.0641
$C_9H_{14}O$	138.1045	$C_6H_{11}N_3O$	141.0903	$C_8H_{15}O_2$	143.1072	$C_8H_{17}O_2$	145.1229
$C_9H_{16}N$	138.1284	$C_6H_{13}N_4$	141.1142	$C_8H_{17}NO$	143.1311	$C_8H_{19}NO$	145.1467
$C_{10}H_{18}$	138.1409	$C_7H_9O_3$	141.0552	$C_8H_{19}N_2$	143.1549	C_9H_7NO	145.0528
139		$C_7H_{11}NO_2$	141.0790	$C_9H_7N_2$	143.0610	$C_9H_9N_2$	145.0767
$C_4H_3N_4O_2$	139.0257	$C_7H_{13}N_2O$	141.1029	$C_9H_{19}O$	143.1436	$C_{10}H_9O$	145.0653
$C_5H_3N_2O_3$	139.0144	$C_7H_{15}N_3$	141.1267	$C_9H_{21}N$	143.1675	$C_{10}H_{11}N$	145.0892
$C_5H_5N_3O_2$	139.0382	$C_8H_{13}O_2$	141.0916	$C_{10}H_7O$	143.0497	$C_{11}H_{13}$	145.1018
$C_5H_7N_4O$	139.0621	$C_8H_{15}NO$	141.1154	$C_{10}H_9N$	143.0736	**146**	
$C_6H_5NO_3$	139.0269	$C_8H_{17}N_2$	141.1393	$C_{11}H_{11}$	143.0861	$C_4H_6N_2O_4$	146.0328
$C_6H_7N_2O_2$	139.0508	$C_9H_{17}O$	141.1280	**144**		$C_4H_8N_3O_3$	146.0566
$C_6H_9N_3O$	139.0747	$C_9H_{19}N$	141.1519	$C_4H_4N_2O_4$	144.0171	$C_4H_{10}N_4O_2$	146.0805
$C_6H_{11}N_4$	139.0985	$C_{10}H_7N$	141.0579	$C_4H_6N_3O_3$	144.0410	$C_5H_8NO_4$	146.0453
$C_7H_7O_3$	139.0395	$C_{10}H_{21}$	141.1644	$C_4H_8N_4O_2$	144.0648	$C_5H_{10}N_2O_3$	146.0692
$C_7H_9NO_2$	139.0634	$C_{11}H_9$	141.0705	$C_5H_6NO_4$	144.0297	$C_5H_{12}N_3O_2$	146.0930
$C_7H_{11}N_2O$	139.0872	**142**		$C_5H_8N_2O_3$	144.0535	$C_5H_{14}N_4O$	146.1169
$C_7H_{13}N_3$	139.1111	$C_4H_4N_3O_3$	142.0253	$C_5H_{10}N_3O_2$	144.0774	$C_6H_{10}O_4$	146.0579
$C_8H_{11}O_2$	139.0759	$C_4H_6N_4O_2$	142.0491	$C_5H_{12}N_4O$	144.1012	$C_6H_{12}NO_3$	146.0817
$C_8H_{13}NO$	139.0998	$C_5H_4NO_4$	142.0140	$C_6H_8O_4$	144.0422	$C_6H_{14}N_2O_2$	146.1056
$C_8H_{15}N_2$	139.1236	$C_5H_6N_2O_3$	142.0379	$C_6H_{10}NO_3$	144.0661	$C_6H_{16}N_3O$	146.1295
$C_9H_3N_2$	139.0297	$C_5H_8N_3O_2$	142.0617	$C_6H_{12}N_2O_2$	144.0899	$C_7H_6N_4$	146.0594
$C_9H_{15}O$	139.1123	$C_5H_{10}N_4O$	142.0856	$C_6H_{14}N_3O$	144.1138	$C_7H_{14}O_3$	146.0943
$C_9H_{17}N$	139.1362	$C_6H_6O_4$	142.0266	$C_6H_{16}N_4$	144.1377	$C_7H_{16}NO_2$	146.1182
$C_{10}H_{19}$	139.1488	$C_6H_8NO_3$	142.0504	$C_7H_{12}O_3$	144.0786	$C_7H_{18}N_2O$	146.1420
$C_{11}H_7$	139.0548	$C_6H_{10}N_2O_2$	142.0743	$C_7H_{14}NO_2$	144.1025	$C_8H_2O_3$	146.0003
140		$C_6H_{12}N_3O$	142.0981	$C_7H_{16}N_2O$	144.1264	$C_8H_6N_2O$	146.0480
$C_4H_4N_4O_2$	140.0335	$C_6H_{14}N_4$	142.1220	$C_7H_{18}N_3$	144.1502	$C_8H_8N_3$	146.0719
$C_5H_4N_2O_3$	140.0222	$C_7H_{10}O_3$	142.0630	$C_8H_6N_3$	144.0563	$C_8H_{18}O_2$	146.1307
$C_5H_6N_3O_2$	140.0460	$C_7H_{12}NO_2$	142.0868	$C_8H_{16}O_2$	144.1151	$C_9H_6O_2$	146.0368
$C_5H_8N_4O$	140.0699	$C_7H_{14}N_2O$	142.1107	$C_8H_{18}NO$	144.1389	C_9H_8NO	146.0606
$C_6H_4O_4$	140.0109	$C_7H_{16}N_3$	142.1346	$C_8H_{20}N_2$	144.1628	$C_9H_{10}N_2$	146.0845
$C_6H_6NO_3$	140.0348	$C_8H_{14}O_2$	142.0994	C_9H_6NO	144.0449	$C_{10}H_{10}O$	146.0732

APPENDIX A *(Continued)*

FM		FM		FM		FM	
$C_{10}H_{12}N$	146.0970	$C_5H_{15}N_3O_2$	149.1165	$C_9H_{13}NO$	151.0998	$C_6H_{10}N_4O$	154.0856
$C_{11}H_{14}$	146.1096	$C_6H_5N_4O$	149.0464	$C_9H_{15}N_2$	151.1236	$C_7H_6O_4$	154.0266
147		$C_6H_{13}O_4$	149.0814	$C_{10}H_{15}O$	151.1123	$C_7H_8NO_3$	154.0504
$C_4H_7N_2O_4$	147.0406	$C_6H_{15}NO_3$	149.1052	$C_{10}H_{17}N$	151.1362	$C_7H_{10}N_2O_2$	154.0743
$C_4H_9N_3O_3$	147.0644	$C_7H_5N_2O_2$	149.0351	$C_{11}H_{19}$	151.1488	$C_7H_{12}N_3O$	154.0981
$C_4H_{11}N_4O_2$	147.0883	$C_7H_7N_3O$	149.0590	**152**		$C_7H_{14}N_4$	154.1220
$C_5H_9NO_4$	147.0532	$C_7H_9N_4$	149.0829	$C_4H_{12}N_2O_4$	152.0797	$C_8H_{10}O_3$	154.0630
$C_5H_{11}N_2O_3$	147.0770	$C_8H_5O_3$	149.0238	$C_5H_4N_4O_2$	152.0335	$C_8H_{12}NO_2$	154.0868
$C_5H_{13}N_3O_2$	147.1009	$C_8H_7NO_2$	149.0477	$C_6H_4N_2O_3$	152.0222	$C_8H_{14}N_2O$	154.1107
$C_5H_{15}N_4O$	147.1247	$C_8H_9N_2O$	149.0715	$C_6H_6N_3O_2$	152.0460	$C_8H_{16}N_3$	154.1346
$C_6H_{11}O_4$	147.0657	$C_8H_{11}N_3$	149.0954	$C_6H_8N_4O$	152.0699	$C_9H_{14}O_2$	154.0994
$C_6H_{13}NO_3$	147.0896	$C_9H_9O_2$	149.0603	$C_7H_6NO_3$	152.0348	$C_9H_{16}NO$	154.1233
$C_6H_{15}N_2O_2$	147.1134	$C_9H_{11}NO$	149.0841	$C_7H_8N_2O_2$	152.0586	$C_9H_{18}N_2$	154.1471
$C_6H_{17}N_3O$	147.1373	$C_9H_{13}N_2$	149.1080	$C_7H_{10}N_3O$	152.0825	$C_{10}H_{18}O$	154.1358
$C_7H_5N_3O$	147.0433	$C_{10}H_{13}O$	149.0967	$C_7H_{12}N_4$	152.1063	$C_{10}H_{20}N$	154.1597
$C_7H_7N_4$	147.0672	$C_{10}H_{15}N$	149.1205	$C_8H_8O_3$	152.0473	$C_{11}H_8N$	154.0657
$C_7H_{15}O_3$	147.1021	$C_{11}H_{17}$	149.1331	$C_8H_{10}NO_2$	152.0712	$C_{11}H_{22}$	154.1722
$C_7H_{17}NO_2$	147.1260	**150**		$C_8H_{12}N_2O$	152.0950	$C_{12}H_{10}$	154.0783
$C_8H_5NO_2$	147.0320	$C_4H_{10}N_2O_4$	150.0641	$C_8H_{14}N_3$	152.1189	**155**	
$C_8H_7N_2O$	147.0559	$C_4H_{12}N_3O_3$	150.0879	$C_9H_{12}O_2$	152.0837	$C_5H_3N_2O_4$	155.0093
$C_8H_9N_3$	147.0798	$C_4H_{14}N_4O_2$	150.1118	$C_9H_{14}NO$	152.1076	$C_5H_5N_3O_3$	155.0331
$C_9H_7O_2$	147.0446	$C_5H_{12}NO_4$	150.0766	$C_9H_{16}N_2$	152.1315	$C_5H_7N_4O_2$	155.0570
C_9H_9NO	147.0684	$C_5H_{14}N_2O_3$	150.1005	$C_{10}H_{16}O$	152.1202	$C_6H_5NO_4$	155.0218
$C_9H_{11}N_2$	147.0923	$C_6H_4N_3O_2$	150.0304	$C_{10}H_{18}N$	152.1440	$C_6H_7N_2O_3$	155.0457
$C_{10}H_{11}O$	147.0810	$C_6H_6N_4O$	150.0542	$C_{11}H_6N$	152.0501	$C_6H_9N_3O_2$	155.0695
$C_{10}H_{13}N$	147.1049	$C_6H_{14}O_4$	150.0892	$C_{11}H_{20}$	152.1566	$C_6H_{11}N_4O$	155.0934
$C_{11}H_{15}$	147.1174	$C_7H_6N_2O_2$	150.0429	$C_{12}H_8$	152.0626	$C_7H_7O_4$	155.0344
148		$C_7H_8N_3O$	150.0668	**153**		$C_7H_9NO_3$	155.0583
$C_4H_8N_2O_4$	148.0484	$C_7H_{10}N_4$	150.0907	$C_5H_3N_3O_3$	153.0175	$C_7H_{11}N_2O_2$	155.0821
$C_4H_{10}N_3O_3$	148.0723	$C_8H_6O_3$	150.0317	$C_5H_5N_4O_2$	153.0413	$C_7H_{13}N_3O$	155.1060
$C_4H_{12}N_4O_2$	148.0961	$C_8H_8NO_2$	150.0555	$C_6H_5N_2O_3$	153.0300	$C_8H_{11}O_3$	155.0708
$C_5H_{10}NO_4$	148.0610	$C_8H_{10}N_2O$	150.0794	$C_6H_7N_3O_2$	153.0539	$C_8H_{13}NO_2$	155.0947
$C_5H_{12}N_2O_3$	148.0849	$C_8H_{12}N_3$	150.1032	$C_6H_9N_4O$	153.0777	$C_8H_{15}N_2O$	155.1185
$C_5H_{16}N_4O$	148.1325	$C_9H_{10}O_2$	150.0681	$C_7H_5O_4$	153.0187	$C_8H_{17}N_3$	155.1424
$C_6H_4N_4O$	148.0386	$C_9H_{12}NO$	150.0919	$C_7H_7NO_3$	153.0426	$C_9H_{15}O_2$	155.1072
$C_6H_{12}O_4$	148.0735	$C_9H_{14}N_2$	150.1158	$C_7H_9N_2O_2$	153.0664	$C_9H_{17}NO$	155.1311
$C_6H_{14}NO_3$	148.0974	$C_{10}H_{14}O$	150.1045	$C_7H_{11}N_3O$	153.0903	$C_9H_{19}N_2$	155.1549
$C_6H_{16}N_2O_2$	148.1213	$C_{10}H_{16}N$	150.1284	$C_7H_{13}N_4$	153.1142	$C_{10}H_7N_2$	155.0610
$C_7H_6N_3O$	148.0511	$C_{11}H_{18}$	150.1409	$C_8H_9O_3$	153.0552	$C_{10}H_{19}O$	155.1436
$C_7H_8N_4$	148.0750	**151**		$C_8H_{11}NO_2$	153.0790	$C_{10}H_{21}N$	155.1675
$C_7H_{16}O_3$	148.1100	$C_4H_{11}N_2O_4$	151.0719	$C_8H_{13}N_2O$	153.1029	$C_{11}H_7O$	155.0497
$C_8H_6NO_2$	148.0399	$C_4H_{13}N_3O_3$	151.0958	$C_8H_{15}N_3$	153.1267	$C_{11}H_9N$	155.0736
$C_8H_8N_2O$	148.0637	$C_5H_3N_4O_2$	151.0257	$C_9H_{13}O_2$	153.0916	$C_{11}H_{23}$	155.1801
$C_8H_{10}N_3$	148.0876	$C_5H_{13}NO_4$	151.0845	$C_9H_{15}NO$	153.1154	$C_{12}H_{11}$	155.0861
$C_9H_8O_2$	148.0524	$C_6H_3N_2O_3$	151.0144	$C_9H_{17}N_2$	153.1393	**156**	
$C_9H_{10}NO$	148.0763	$C_6H_5N_3O_2$	151.0382	$C_{10}H_{17}O$	153.1280	$C_5H_4N_2O_4$	156.0171
$C_9H_{12}N_2$	148.1001	$C_6H_7N_4O$	151.0621	$C_{10}H_{19}N$	153.1519	$C_5H_6N_3O_3$	156.0410
$C_{10}H_{12}O$	148.0888	$C_7H_5NO_3$	151.0269	$C_{11}H_7N$	153.0579	$C_5H_8N_4O_2$	156.0648
$C_{10}H_{14}N$	148.1127	$C_7H_7N_2O_2$	151.0508	$C_{11}H_{21}$	153.1644	$C_6H_6NO_4$	156.0297
$C_{11}H_{16}$	148.1253	$C_7H_9N_3O$	151.0746	$C_{12}H_9$	153.0705	$C_6H_8N_2O_3$	156.0535
149		$C_7H_{11}N_4$	151.0985	**154**		$C_6H_{10}N_3O_2$	156.0774
$C_4H_9N_2O_4$	149.0563	$C_8H_7O_3$	151.0395	$C_5H_4N_3O_3$	154.0253	$C_6H_{12}N_4O$	156.1012
$C_4H_{11}N_3O_3$	149.0801	$C_8H_9NO_2$	151.0634	$C_5H_6N_4O_2$	154.0491	$C_7H_8O_4$	156.0422
$C_4H_{13}N_4O_2$	149.1040	$C_8H_{11}N_2O$	151.0872	$C_6H_4NO_4$	154.0140	$C_7H_{10}NO_3$	156.0661
$C_5H_{11}NO_4$	149.0688	$C_8H_{13}N_3$	151.1111	$C_6H_6N_2O_3$	154.0379	$C_7H_{12}N_2O_2$	156.0899
$C_5H_{13}N_2O_3$	149.0927	$C_9H_{11}O_2$	151.0759	$C_6H_8N_3O_2$	154.0617	$C_7H_{14}N_3O$	156.1138

APPENDIX A *(Continued)*

FM		FM		FM		FM	
$C_7H_{16}N_4$	156.1377	$C_7H_{14}N_2O_2$	158.1056	$C_7H_{14}NO_3$	160.0974	$C_8H_{10}N_4$	162.0907
$C_8H_{12}O_3$	156.0786	$C_7H_{16}N_3O$	158.1295	$C_7H_{16}N_2O_2$	160.1213	$C_8H_{18}O_3$	162.1256
$C_8H_{14}NO_2$	156.1025	$C_7H_{18}N_4$	158.1533	$C_7H_{18}N_3O$	160.1451	$C_9H_6O_3$	162.0317
$C_8H_{16}N_2O$	156.1264	$C_8H_6N_4$	158.0594	$C_7H_{20}N_4$	160.1690	$C_9H_8NO_2$	162.0555
$C_8H_{18}N_3$	156.1502	$C_8H_{14}O_3$	158.0943	$C_8H_6N_3O$	160.0511	$C_9H_{10}N_2O$	162.0794
$C_9H_6N_3$	156.0563	$C_8H_{16}NO_2$	158.1182	$C_8H_8N_4$	160.0750	$C_9H_{12}N_3$	162.1032
$C_9H_{16}O_2$	156.1151	$C_8H_{18}N_2O$	158.1420	$C_8H_{16}O_3$	160.1100	$C_{10}H_{10}O_2$	162.0681
$C_9H_{18}NO$	156.1389	$C_8H_{20}N_3$	158.1659	$C_8H_{18}NO_2$	160.1338	$C_{10}H_{12}NO$	162.0919
$C_9H_{20}N_2$	156.1628	$C_9H_6N_2O$	158.0480	$C_8H_{20}N_2O$	160.1577	$C_{10}H_{14}N_2$	162.1158
$C_{10}H_6NO$	156.0449	$C_9H_8N_3$	158.0719	$C_9H_6NO_2$	160.0399	$C_{11}H_{14}O$	162.1045
$C_{10}H_8N_2$	156.0688	$C_9H_{18}O_2$	158.1307	$C_9H_8N_2O$	160.0637	$C_{11}H_{16}N$	162.1284
$C_{10}H_{20}O$	156.1515	$C_9H_{20}NO$	158.1546	$C_9H_{10}N_3$	160.0876	$C_{12}H_{18}$	162.1409
$C_{10}H_{22}N$	156.1753	$C_{10}H_6O_2$	158.0368	$C_9H_{20}O_2$	160.1464	**163**	
$C_{11}H_8O$	156.0575	$C_{10}H_8NO$	158.0606	$C_{10}H_8O_2$	160.0524	$C_5H_{11}N_2O_4$	163.0719
$C_{11}H_{10}N$	156.0814	$C_{10}H_{10}N_2$	158.0845	$C_{10}H_{10}NO$	160.0763	$C_5H_{13}N_3O_3$	163.0958
$C_{11}H_{24}$	156.1879	$C_{10}H_{22}O$	158.1672	$C_{10}H_{12}N_2$	160.1001	$C_5H_{15}N_4O_2$	163.1196
$C_{12}H_{12}$	156.0939	$C_{11}H_{10}O$	158.0732	$C_{11}H_{12}O$	160.0888	$C_6H_{13}NO_4$	163.0845
157		$C_{11}H_{12}N$	158.0970	$C_{11}H_{14}N$	160.1127	$C_6H_{15}N_2O_3$	163.1083
$C_5H_5N_2O_4$	157.0249	$C_{12}H_{14}$	158.1096	$C_{12}H_{16}$	160.1253	$C_6H_{17}N_3O_2$	163.1322
$C_5H_7N_3O_3$	157.0488	**159**		**161**		$C_7H_5N_3O_2$	163.0382
$C_5H_9N_4O_2$	157.0726	$C_5H_7N_2O_4$	159.0406	$C_5H_9N_2O_4$	161.0563	$C_7H_7N_4O$	163.0621
$C_6H_7NO_4$	157.0375	$C_5H_9N_3O_3$	159.0644	$C_5H_{11}N_3O_3$	161.0801	$C_7H_{15}O_4$	163.0970
$C_6H_9N_2O_3$	157.0614	$C_5H_{11}N_4O_2$	159.0883	$C_5H_{13}N_4O_2$	161.1040	$C_7H_{17}NO_3$	163.1209
$C_6H_{11}N_3O_2$	157.0852	$C_6H_9NO_4$	159.0532	$C_6H_{11}NO_4$	161.0688	$C_8H_5NO_3$	163.0269
$C_6H_{13}N_4O$	157.1091	$C_6H_{11}N_2O_3$	159.0770	$C_6H_{13}N_2O_3$	161.0927	$C_8H_7N_2O_2$	163.0508
$C_7H_9O_4$	157.0501	$C_6H_{13}N_3O_2$	159.1009	$C_6H_{15}N_3O_2$	161.1165	$C_8H_9N_3O$	163.0746
$C_7H_{11}NO_3$	157.0739	$C_6H_{15}N_4O$	159.1247	$C_6H_{17}N_4O$	161.1404	$C_8H_{11}N_4$	163.0985
$C_7H_{13}N_2O_2$	157.0978	$C_7H_{11}O_4$	159.0657	$C_7H_5N_4O$	161.0464	$C_9H_7O_3$	163.0395
$C_7H_{15}N_3O$	157.1216	$C_7H_{13}NO_3$	159.0896	$C_8H_5N_2O_2$	161.0351	$C_9H_9NO_2$	163.0634
$C_7H_{17}N_4$	157.1455	$C_7H_{15}N_2O_2$	159.1134	$C_8H_7N_3O$	161.0590	$C_9H_{11}N_2O$	163.0872
$C_8H_5N_4$	157.0515	$C_7H_{17}N_3O$	159.1373	$C_8H_9N_4$	161.0829	$C_9H_{13}N_3$	163.1111
$C_8H_{13}O_3$	157.0865	$C_8H_5N_3O$	159.0433	$C_8H_{17}O_3$	161.1178	$C_{10}H_{11}O_2$	163.0759
$C_8H_{15}NO_2$	157.1103	$C_8H_7N_4$	159.0672	$C_8H_{19}NO_2$	161.1416	$C_{10}H_{13}NO$	163.0998
$C_8H_{17}N_2O$	157.1342	$C_8H_{15}O_3$	159.1021	$C_9H_5O_3$	161.0238	$C_{10}H_{15}N_2$	163.1236
$C_8H_{19}N_3$	157.1580	$C_8H_{17}NO_2$	159.1260	$C_9H_7NO_2$	161.0477	$C_{11}H_{15}O$	163.1123
$C_9H_5N_2O$	157.0402	$C_8H_{19}N_2O$	159.1498	$C_9H_9N_2O$	161.0715	$C_{11}H_{17}N$	163.1362
$C_9H_7N_3$	157.0641	$C_8H_{21}N_3$	159.1737	$C_9H_{11}N_3$	161.0954	$C_{12}H_{19}$	163.1488
$C_9H_{17}O_2$	157.1229	$C_9H_5NO_2$	159.0320	$C_{10}H_9O_2$	161.0603	**164**	
$C_9H_{19}NO$	157.1467	$C_9H_7N_2O$	159.0559	$C_{10}H_{11}NO$	161.0841	$C_5H_{12}N_2O_4$	164.0797
$C_9H_{21}N_2$	157.1706	$C_9H_9N_3$	159.0798	$C_{10}H_{13}N_2$	161.1080	$C_5H_{14}N_3O_3$	164.1036
$C_{10}H_7NO$	157.0528	$C_9H_{19}O_2$	159.1385	$C_{11}H_{13}O$	161.0967	$C_5H_{16}N_4O_2$	164.1275
$C_{10}H_9N_2$	157.0767	$C_9H_{21}NO$	159.1624	$C_{11}H_{15}N$	161.1205	$C_6H_4N_4O_2$	164.0335
$C_{10}H_{21}O$	157.1593	$C_{10}H_7O_2$	159.0446	$C_{12}H_{17}$	161.1331	$C_6H_{14}NO_4$	164.0923
$C_{10}H_{23}N$	157.1832	$C_{10}H_9NO$	159.0684	**162**		$C_6H_{16}N_2O_3$	164.1162
$C_{11}H_9O$	157.0653	$C_{10}H_{11}N_2$	159.0923	$C_5H_{10}N_2O_4$	162.0641	$C_7H_6N_3O_2$	164.0460
$C_{11}H_{11}N$	157.0892	$C_{11}H_{11}O$	159.0810	$C_5H_{12}N_3O_3$	162.0879	$C_7H_8N_4O$	164.0699
$C_{12}H_{13}$	157.1018	$C_{11}H_{13}N$	159.1049	$C_5H_{14}N_4O_2$	162.1118	$C_7H_{16}O_4$	164.1049
158		$C_{12}H_{15}$	159.1174	$C_6H_{12}NO_4$	162.0766	$C_8H_6NO_3$	164.0348
$C_5H_6N_2O_4$	158.0328	**160**		$C_6H_{14}N_2O_3$	162.1005	$C_8H_8N_2O_2$	164.0586
$C_5H_8N_3O_3$	158.0566	$C_5H_8N_2O_4$	160.0484	$C_6H_{16}N_3O_2$	162.1244	$C_8H_{10}N_3O$	164.0825
$C_5H_{10}N_4O_2$	158.0805	$C_5H_{10}N_3O_3$	160.0723	$C_6H_{18}N_4O$	162.1482	$C_8H_{12}N_4$	164.1063
$C_6H_8NO_4$	158.0453	$C_5H_{12}N_4O_2$	160.0961	$C_7H_6N_4O$	162.0542	$C_9H_8O_3$	164.0473
$C_6H_{10}N_2O_3$	158.0692	$C_6H_{10}NO_4$	160.0610	$C_7H_{14}O_4$	162.0892	$C_9H_{10}NO_2$	164.0712
$C_6H_{12}N_3O_2$	158.0930	$C_6H_{12}N_2O_3$	160.0848	$C_7H_{16}NO_3$	162.1131	$C_9H_{12}N_2O$	164.0950
$C_6H_{14}N_4O$	158.1169	$C_6H_{14}N_3O_2$	160.1087	$C_7H_{18}N_2O_2$	162.1369	$C_9H_{14}N_3$	164.1189
$C_7H_{10}O_4$	158.0579	$C_6H_{16}N_4O$	160.1325	$C_8H_6N_2O_2$	162.0429	$C_{10}H_{12}O_2$	164.0837
$C_7H_{12}NO_3$	158.0817	$C_7H_{12}O_4$	160.0735	$C_8H_8N_3O$	162.0668	$C_{10}H_{14}NO$	164.1076

APPENDIX A *(Continued)*

FM		FM		FM		FM	
$C_{10}H_{16}N_2$	164.1315	$C_7H_7N_2O_3$	167.0457	$C_8H_{11}NO_3$	169.0739	$C_7H_{13}N_3O_2$	171.1009
$C_{11}H_{16}O$	164.1202	$C_7H_9N_3O_2$	167.0695	$C_8H_{13}N_2O_2$	169.0978	$C_7H_{15}N_4O$	171.1247
$C_{11}H_{18}N$	164.1440	$C_7H_{11}N_4O$	167.0934	$C_8H_{15}N_3O$	169.1216	$C_8H_{11}O_4$	171.0657
$C_{12}H_{20}$	164.1566	$C_8H_7O_4$	167.0344	$C_8H_{17}N_4$	169.1455	$C_8H_{13}NO_3$	171.0896
165		$C_8H_9NO_3$	167.0583	$C_9H_{13}O_3$	169.0865	$C_8H_{15}N_2O_2$	171.1134
$C_5H_{13}N_2O_4$	165.0876	$C_8H_{11}N_2O_2$	167.0821	$C_9H_{15}NO_2$	169.1103	$C_8H_{17}N_3O$	171.1373
$C_5H_{15}N_3O_3$	165.1114	$C_8H_{13}N_3O$	167.1060	$C_9H_{17}N_2O$	169.1342	$C_8H_{19}N_4$	171.1611
$C_6H_5N_4O_2$	165.0413	$C_8H_{15}N_4$	167.1298	$C_9H_{19}N_3$	169.1580	$C_9H_5N_3O$	171.0433
$C_6H_{15}NO_4$	165.1001	$C_9H_{11}O_3$	167.0708	$C_{10}H_7N_3$	169.0641	$C_9H_7N_4$	171.0672
$C_7H_5N_2O_3$	165.0300	$C_9H_{13}NO_2$	167.0947	$C_{10}H_{17}O_2$	169.1229	$C_9H_{15}O_3$	171.1021
$C_7H_7N_3O_2$	165.0539	$C_9H_{15}N_2O$	167.1185	$C_{10}H_{19}NO$	169.1467	$C_9H_{17}NO_2$	171.1260
$C_7H_9N_4O$	165.0777	$C_9H_{17}N_3$	167.1424	$C_{10}H_{21}N_2$	169.1706	$C_9H_{19}N_2O$	171.1498
$C_8H_5O_4$	165.0187	$C_{10}H_{15}O_2$	167.1072	$C_{11}H_7NO$	169.0528	$C_9H_{21}N_3$	171.1737
$C_8H_7NO_3$	165.0426	$C_{10}H_{17}NO$	167.1311	$C_{11}H_9N_2$	169.0767	$C_{10}H_7N_2O$	171.0559
$C_8H_9N_2O_2$	165.0664	$C_{10}H_{19}N_2$	167.1549	$C_{11}H_{21}O$	169.1593	$C_{10}H_9N_3$	171.0798
$C_8H_{11}N_3O$	165.0903	$C_{11}H_7N_2$	167.0610	$C_{11}H_{23}N$	169.1832	$C_{10}H_{19}O_2$	171.1385
$C_8H_{13}N_4$	165.1142	$C_{11}H_{19}O$	167.1436	$C_{12}H_9O$	169.0653	$C_{10}H_{21}NO$	171.1624
$C_9H_9O_3$	165.0552	$C_{11}H_{21}N$	167.1675	$C_{12}H_{11}N$	169.0892	$C_{10}H_{23}N_2$	171.1863
$C_9H_{11}NO_2$	165.0790	$C_{12}H_9N$	167.0736	$C_{12}H_{25}$	169.1957	$C_{11}H_7O_2$	171.0446
$C_9H_{13}N_2O$	165.1029	$C_{12}H_{23}$	167.1801	$C_{13}H_{13}$	169.1018	$C_{11}H_9NO$	171.0684
$C_9H_{15}N_3$	165.1267	$C_{13}H_{11}$	167.0861	**170**		$C_{11}H_{11}N_2$	171.0923
$C_{10}H_{13}O_2$	165.0916	**168**		$C_6H_6N_2O_4$	170.0328	$C_{11}H_{23}O$	171.1750
$C_{10}H_{15}NO$	165.1154	$C_6H_4N_2O_4$	168.0171	$C_6H_8N_3O_3$	170.0566	$C_{11}H_{25}N$	171.1988
$C_{10}H_{17}N_2$	165.1393	$C_6H_6N_3O_3$	168.0410	$C_6H_{10}N_4O_2$	170.0805	$C_{12}H_{11}O$	171.0810
$C_{11}H_{17}O$	165.1280	$C_6H_8N_4O_2$	168.0648	$C_7H_8NO_4$	170.0453	$C_{12}H_{13}N$	171.1049
$C_{11}H_{19}N$	165.1519	$C_7H_6NO_4$	168.0297	$C_7H_{10}N_2O_3$	170.0692	$C_{13}H_{15}$	171.1174
$C_{12}H_7N$	165.0579	$C_7H_8N_2O_3$	168.0535	$C_7H_{12}N_3O_2$	170.0930	**172**	
$C_{12}H_{21}$	165.1644	$C_7H_{10}N_3O_2$	168.0774	$C_7H_{14}N_4O$	170.1169	$C_6H_8N_2O_4$	172.0484
$C_{13}H_9$	165.0705	$C_7H_{12}N_4O$	168.1012	$C_8H_{10}O_4$	170.0579	$C_6H_{10}N_3O_3$	172.0723
166		$C_8H_8O_4$	168.0422	$C_8H_{12}NO_3$	170.0817	$C_6H_{12}N_4O_2$	172.0961
$C_5H_{14}N_2O_4$	166.0954	$C_8H_{10}NO_3$	168.0661	$C_8H_{14}N_2O_2$	170.1056	$C_7H_{10}NO_4$	172.0610
$C_6H_4N_3O_3$	166.0253	$C_8H_{12}N_2O_2$	168.0899	$C_8H_{16}N_3O$	170.1295	$C_7H_{12}N_2O_3$	172.0848
$C_6H_6N_4O_2$	166.0491	$C_8H_{14}N_3O$	168.1138	$C_8H_{18}N_4$	170.1533	$C_7H_{14}N_3O_2$	172.1087
$C_7H_6N_2O_3$	166.0379	$C_8H_{16}N_4$	168.1377	$C_9H_6N_4$	170.0594	$C_7H_{16}N_4O$	172.1325
$C_7H_8N_3O_2$	166.0617	$C_9H_{12}O_3$	168.0786	$C_9H_{14}O_3$	170.0943	$C_8H_{12}O_4$	172.0735
$C_7H_{10}N_4O$	166.0856	$C_9H_{14}NO_2$	168.1025	$C_9H_{16}NO_2$	170.1182	$C_8H_{14}NO_3$	172.0974
$C_8H_6O_4$	166.0266	$C_9H_{16}N_2O$	168.1264	$C_9H_{18}N_2O$	170.1420	$C_8H_{16}N_2O_2$	172.1213
$C_8H_8NO_3$	166.0504	$C_9H_{18}N_3$	168.1502	$C_9H_{20}N_3$	170.1659	$C_8H_{18}N_3O$	172.1451
$C_8H_{10}N_2O_2$	166.0743	$C_{10}H_{16}O_2$	168.1151	$C_{10}H_6N_2O$	170.0480	$C_8H_{20}N_4$	172.1690
$C_8H_{12}N_3O$	166.0981	$C_{10}H_{18}NO$	168.1389	$C_{10}H_8N_3$	170.0719	$C_9H_6N_3O$	172.0511
$C_8H_{14}N_4$	166.1220	$C_{10}H_{20}N_2$	168.1628	$C_{10}H_{18}O_2$	170.1307	$C_9H_8N_4$	172.0750
$C_9H_{10}O_3$	166.0630	$C_{11}H_8N_2$	168.0688	$C_{10}H_{20}NO$	170.1546	$C_9H_{16}O_3$	172.1100
$C_9H_{12}NO_2$	166.0868	$C_{11}H_{20}O$	168.1515	$C_{10}H_{22}N_2$	170.1784	$C_9H_{18}NO_2$	172.1338
$C_9H_{14}N_2O$	166.1107	$C_{11}H_{22}N$	168.1753	$C_{11}H_8NO$	170.0606	$C_9H_{20}N_2O$	172.1577
$C_9H_{16}N_3$	166.1346	$C_{12}H_8O$	168.0575	$C_{11}H_{10}N_2$	170.0845	$C_9H_{22}N_3$	172.1815
$C_{10}H_{14}O_2$	166.0994	$C_{12}H_{10}N$	168.0814	$C_{11}H_{22}O$	170.1671	$C_{10}H_6NO_2$	172.0399
$C_{10}H_{16}NO$	166.1233	$C_{12}H_{24}$	168.1879	$C_{11}H_{24}N$	170.1910	$C_{10}H_8N_2O$	172.0637
$C_{10}H_{18}N_2$	166.1471	$C_{13}H_{12}$	168.0939	$C_{12}H_{10}O$	170.0732	$C_{10}H_{10}N_3$	172.0876
$C_{11}H_{18}O$	166.1358	**169**		$C_{12}H_{12}N$	170.0970	$C_{10}H_{20}O_2$	172.1464
$C_{11}H_{20}N$	166.1597	$C_6H_5N_2O_4$	169.0249	$C_{12}H_{26}$	170.2036	$C_{10}H_{22}NO$	172.1702
$C_{12}H_8N$	166.0657	$C_6H_7N_3O_3$	169.0488	$C_{13}H_{14}$	170.1096	$C_{10}H_{24}N_2$	172.1941
$C_{12}H_{22}$	166.1722	$C_6H_9N_4O_2$	169.0726	**171**		$C_{11}H_8O_2$	172.0524
$C_{13}H_{10}$	166.0783	$C_7H_7NO_4$	169.0375	$C_6H_7N_2O_4$	171.0406	$C_{11}H_{10}NO$	172.0763
167		$C_7H_9N_2O_3$	169.0614	$C_6H_9N_3O_3$	171.0644	$C_{11}H_{12}N_2$	172.1001
$C_6H_5N_3O_3$	167.0331	$C_7H_{11}N_3O_2$	169.0852	$C_6H_{11}N_4O_2$	171.0883	$C_{11}H_{24}O$	172.1828
$C_6H_7N_4O_2$	167.0570	$C_7H_{13}N_4O$	169.1091	$C_7H_9NO_4$	171.0532	$C_{12}H_{12}O$	172.0888
$C_7H_5NO_4$	167.0218	$C_8H_9O_4$	169.0501	$C_7H_{11}N_2O_3$	171.0770	$C_{12}H_{14}N$	172.1127

APPENDIX A *(Continued)*

FM		FM		FM		FM	
$C_{13}H_{16}$	172.1253	$C_{11}H_{12}NO$	174.0919	$C_{11}H_{12}O_2$	176.0837	$C_{12}H_{20}N$	178.1597
173		$C_{11}H_{14}N_2$	174.1158	$C_{11}H_{14}NO$	176.1076	$C_{13}H_8N$	178.0657
$C_6H_9N_2O_4$	173.0563	$C_{12}H_{14}O$	174.1045	$C_{11}H_{16}N_2$	176.1315	$C_{13}H_{22}$	178.1722
$C_6H_{11}N_3O_3$	173.0801	$C_{12}H_{16}N$	174.1284	$C_{12}H_{16}O$	176.1202	$C_{14}H_{10}$	178.0783
$C_6H_{13}N_4O_2$	173.1040	$C_{13}H_{18}$	174.1409	$C_{12}H_{18}N$	176.1440	**179**	
$C_7H_{11}NO_4$	173.0688	**175**		$C_{13}H_{20}$	176.1566	$C_6H_{15}N_2O_4$	179.1032
$C_7H_{13}N_2O_3$	173.0927	$C_6H_{11}N_2O_4$	175.0719	**177**		$C_6H_{17}N_3O_3$	179.1271
$C_7H_{15}N_3O_2$	173.1165	$C_6H_{13}N_3O_3$	175.0958	$C_6H_{13}N_2O_4$	177.0876	$C_7H_5N_3O_3$	179.0331
$C_7H_{17}N_4O$	173.1404	$C_6H_{15}N_4O_2$	175.1196	$C_6H_{15}N_3O_3$	177.1114	$C_7H_7N_4O_2$	179.0570
$C_8H_{13}O_4$	173.0814	$C_7H_{13}NO_4$	175.0845	$C_6H_{17}N_4O_2$	177.1353	$C_7H_{17}NO_4$	179.1158
$C_8H_{15}NO_3$	173.1052	$C_7H_{15}N_2O_3$	175.1083	$C_7H_5N_4O_2$	177.0413	$C_8H_5NO_4$	179.0218
$C_8H_{17}N_2O_2$	173.1291	$C_7H_{17}N_3O_2$	175.1322	$C_7H_{15}NO_4$	177.1001	$C_8H_7N_2O_3$	179.0457
$C_8H_{19}N_3O$	173.1529	$C_7H_{19}N_4O$	175.1560	$C_7H_{17}N_2O_3$	177.1240	$C_8H_9N_3O_2$	179.0695
$C_8H_{21}N_4$	173.1768	$C_8H_7N_4O$	175.0621	$C_7H_{19}N_3O_2$	177.1478	$C_8H_{11}N_4O$	179.0934
$C_9H_7N_3O$	173.0590	$C_8H_{15}O_4$	175.0970	$C_8H_5N_2O_3$	177.0300	$C_9H_7O_4$	179.0344
$C_9H_9N_4$	173.0829	$C_8H_{17}NO_3$	175.1209	$C_8H_7N_3O_2$	177.0539	$C_9H_9NO_3$	179.0583
$C_9H_{17}O_3$	173.1178	$C_8H_{19}N_2O_2$	175.1447	$C_8H_9N_4O$	177.0777	$C_9H_{11}N_2O_2$	179.0821
$C_9H_{19}NO_2$	173.1416	$C_8H_{21}N_3O$	175.1686	$C_8H_{17}O_4$	177.1127	$C_9H_{13}N_3O$	179.1060
$C_9H_{21}N_2O$	173.1655	$C_9H_5NO_3$	175.0269	$C_8H_{19}NO_3$	177.1365	$C_9H_{15}N_4$	179.1298
$C_{10}H_5O_3$	173.0238	$C_9H_7N_2O_2$	175.0508	$C_9H_7NO_3$	177.0426	$C_{10}H_{11}O_3$	179.0708
$C_{10}H_7NO_2$	173.0477	$C_9H_9N_3O$	175.0746	$C_9H_9N_2O_2$	177.0664	$C_{10}H_{13}NO_2$	179.0947
$C_{10}H_9N_2O$	173.0715	$C_9H_{11}N_4$	175.0985	$C_9H_{11}N_3O$	177.0903	$C_{10}H_{15}N_2O$	179.1185
$C_{10}H_{11}N_3$	173.0954	$C_9H_{19}O_3$	175.1334	$C_9H_{13}N_4$	177.1142	$C_{10}H_{17}N_3$	179.1424
$C_{10}H_{21}O_2$	173.1542	$C_9H_{21}NO_2$	175.1573	$C_{10}H_9O_3$	177.0552	$C_{11}H_{15}O_2$	179.1072
$C_{10}H_{23}NO$	173.1781	$C_{10}H_7O_3$	175.0395	$C_{10}H_{11}NO_2$	177.0790	$C_{11}H_{17}NO$	179.1311
$C_{11}H_9O_2$	173.0603	$C_{10}H_9NO_2$	175.0634	$C_{10}H_{13}N_2O$	177.1029	$C_{11}H_{19}N_2$	179.1549
$C_{11}H_{11}NO$	173.0841	$C_{10}H_{11}N_2O$	175.0872	$C_{10}H_{15}N_3$	177.1267	$C_{12}H_{19}O$	179.1436
$C_{11}H_{13}N_2$	173.1080	$C_{10}H_{13}N_3$	175.1111	$C_{11}H_{13}O_2$	177.0916	$C_{12}H_{21}N$	179.1675
$C_{12}H_{13}O$	173.0967	$C_{11}H_{11}O_2$	175.0759	$C_{11}H_{15}NO$	177.1154	$C_{13}H_9N$	179.0736
$C_{12}H_{15}NO_2$	173.1205	$C_{11}H_{13}NO$	175.0998	$C_{11}H_{17}N_2$	177.1393	$C_{13}H_{23}$	179.1801
$C_{13}H_{17}$	173.1331	$C_{11}H_{15}N_2$	175.1236	$C_{12}H_{17}O$	177.1280	$C_{14}H_{11}$	179.0861
174		$C_{12}H_{15}O$	175.1123	$C_{12}H_{19}N$	177.1519	**180**	
$C_6H_{10}N_2O_4$	174.0641	$C_{12}H_{17}N$	175.1362	$C_{13}H_{21}$	177.1644	$C_6H_{16}N_2O_4$	180.1111
$C_6H_{12}N_3O_3$	174.0879	$C_{13}H_3O$	175.0184	**178**		$C_7H_6N_3O_3$	180.0410
$C_6H_{14}N_4O_2$	174.1118	$C_{13}H_{19}$	175.1488	$C_6H_{14}N_2O_4$	178.0954	$C_7H_8N_4O_2$	180.0648
$C_7H_{12}NO_4$	174.0766	**176**		$C_6H_{16}N_3O_3$	178.1193	$C_8H_6NO_4$	180.0297
$C_7H_{14}N_2O_3$	174.1005	$C_6H_{12}N_2O_4$	176.0797	$C_6H_{18}N_4O_2$	178.1431	$C_8H_8N_2O_3$	180.0535
$C_7H_{16}N_3O_2$	174.1244	$C_6H_{14}N_3O_3$	176.1036	$C_7H_6N_4O_2$	178.0491	$C_8H_{10}N_3O_2$	180.0774
$C_7H_{18}N_4O$	174.1482	$C_6H_{16}N_4O_2$	176.1275	$C_7H_{16}NO_4$	178.1080	$C_8H_{12}N_4O$	180.1012
$C_7H_{16}N_4O$	174.1244	$C_7H_{14}NO_4$	176.0923	$C_7H_{18}N_2O_3$	178.1318	$C_9H_8O_4$	180.0422
$C_8H_6N_4O$	174.0542	$C_7H_{16}N_2O_3$	176.1162	$C_8H_6N_2O_3$	178.0379	$C_9H_{10}NO_3$	180.0661
$C_8H_{14}O_4$	174.0892	$C_7H_{18}N_3O_2$	176.1400	$C_8H_8N_3O_2$	178.0617	$C_9H_{12}N_2O_2$	180.0899
$C_8H_{16}NO_3$	174.1131	$C_7H_{20}N_4O$	176.1639	$C_8H_{10}N_4O$	178.0856	$C_9H_{14}N_3O$	180.1138
$C_8H_{18}N_2O_2$	174.1369	$C_8H_6N_3O_2$	176.0460	$C_8H_{18}O_4$	178.1205	$C_9H_{16}N_4$	180.1377
$C_8H_{20}N_3O$	174.1608	$C_8H_8N_4O$	176.0699	$C_9H_6O_4$	178.0266	$C_{10}H_{12}O_3$	180.0786
$C_8H_{22}N_4$	174.1846	$C_8H_{16}O_4$	176.1049	$C_9H_8NO_3$	178.0504	$C_{10}H_{14}NO_2$	180.1025
$C_9H_6N_2O_2$	174.0429	$C_8H_{18}NO_3$	176.1287	$C_9H_{10}N_2O_2$	178.0743	$C_{10}H_{16}N_2O$	180.1264
$C_9H_{10}N_4$	174.0907	$C_8H_{20}N_2O_2$	176.1526	$C_9H_{12}N_3O$	178.0981	$C_{10}H_{18}N_3$	180.1502
$C_9H_{18}O_3$	174.1256	$C_9H_6NO_3$	176.0348	$C_9H_{14}N_4$	178.1220	$C_{11}H_{16}O_2$	180.1151
$C_9H_{20}NO_2$	174.1495	$C_9H_8N_2O_2$	176.0586	$C_{10}H_{10}O_3$	178.0630	$C_{11}H_{18}NO$	180.1389
$C_9H_{22}N_2O$	174.1733	$C_9H_{10}N_3O$	176.0825	$C_{10}H_{12}NO_2$	178.0868	$C_{11}H_{20}N_2$	180.1628
$C_{10}H_6O_3$	174.0317	$C_9H_{12}N_4$	176.1063	$C_{10}H_{14}N_2O$	178.1107	$C_{12}H_8N_2$	180.0688
$C_{10}H_8NO_2$	174.0555	$C_9H_{20}O_3$	176.1413	$C_{10}H_{16}N_3$	178.1346	$C_{12}H_{20}O$	180.1515
$C_{10}H_{10}N_2O$	174.0794	$C_{10}H_8O_3$	176.0473	$C_{11}H_{14}O_2$	178.0994	$C_{12}H_{22}N$	180.1753
$C_{10}H_{12}N_3$	174.1032	$C_{10}H_{10}NO_2$	176.0712	$C_{11}H_{16}NO$	178.1233	$C_{13}H_8O$	180.0575
$C_{10}H_{22}O_2$	174.1620	$C_{10}H_{12}N_2O$	176.0950	$C_{11}H_{18}N_2$	178.1471	$C_{13}H_{10}N$	180.0814
$C_{11}H_{10}O_2$	174.0681	$C_{10}H_{14}N_3$	176.1189	$C_{12}H_{18}O$	178.1358	$C_{13}H_{24}$	180.1879

APPENDIX A *(Continued)*

	FM		FM		FM		FM
$C_{14}H_{12}$	180.0939	$C_{13}H_{12}N$	182.0970	$C_{11}H_{22}NO$	184.1702	$C_{10}H_8N_3O$	186.0668
181		$C_{13}H_{26}$	182.2036	$C_{11}H_{24}N_2$	184.1941	$C_{10}H_{10}N_4$	186.0907
$C_7H_5N_2O_4$	181.0249	$C_{14}H_{14}$	182.1096	$C_{12}H_8O_2$	184.0524	$C_{10}H_{18}O_3$	186.1256
$C_7H_7N_3O_3$	181.0488	**183**		$C_{12}H_{10}NO$	184.0763	$C_{10}H_{20}NO_2$	186.1495
$C_7H_9N_4O_2$	181.0726	$C_7H_7N_2O_4$	183.0406	$C_{12}H_{12}N_2$	184.1001	$C_{10}H_{22}N_2O$	186.1733
$C_8H_7NO_4$	181.0375	$C_7H_9N_3O_3$	183.0644	$C_{12}H_{24}O$	184.1828	$C_{10}H_{24}N_3$	186.1972
$C_8H_9N_2O_3$	181.0614	$C_7H_{11}N_4O_2$	183.0883	$C_{12}H_{26}N$	184.2067	$C_{11}H_8NO_2$	186.0555
$C_8H_{11}N_3O_2$	181.0852	$C_8H_9NO_4$	183.0532	$C_{13}H_{12}O$	184.0888	$C_{11}H_{10}N_2O$	186.0794
$C_8H_{13}N_4O$	181.1091	$C_8H_{11}N_2O_3$	183.0770	$C_{13}H_{14}N$	184.1127	$C_{11}H_{12}N_3$	186.1032
$C_9H_9O_4$	181.0501	$C_8H_{13}N_3O_2$	183.1009	$C_{13}H_{28}$	184.2192	$C_{11}H_{22}O_2$	186.1620
$C_9H_{11}NO_3$	181.0739	$C_8H_{15}N_4O$	183.1247	$C_{14}H_{16}$	184.1253	$C_{11}H_{24}NO$	186.1859
$C_9H_{13}N_2O_2$	181.0978	$C_9H_{11}O_4$	183.0657	**185**		$C_{11}H_{26}N_2$	186.2098
$C_9H_{15}N_3O$	181.1216	$C_9H_{13}NO_3$	183.0896	$C_7H_9N_2O_4$	185.0563	$C_{12}H_{10}O_2$	186.0681
$C_9H_{17}N_4$	181.1455	$C_9H_{15}N_2O_2$	183.1134	$C_7H_{11}N_3O_3$	185.0801	$C_{12}H_{12}NO$	186.0919
$C_{10}H_{13}O_3$	181.0865	$C_9H_{17}N_3O$	183.1373	$C_7H_{13}N_4O_2$	185.1040	$C_{12}H_{14}N_2$	186.1158
$C_{10}H_{15}NO_2$	181.1103	$C_9H_{19}N_4$	183.1611	$C_8H_{11}NO_4$	185.0688	$C_{12}H_{26}O$	186.1985
$C_{10}H_{17}N_2O$	181.1342	$C_{10}H_7N_4$	183.0672	$C_8H_{13}N_2O_3$	185.0927	$C_{13}H_{14}O$	186.1045
$C_{10}H_{19}N_3$	181.1580	$C_{10}H_{15}O_3$	183.1021	$C_8H_{15}N_3O_2$	185.1165	$C_{13}H_{16}N$	186.1284
$C_{11}H_7N_3$	181.0641	$C_{10}H_{17}NO_2$	183.1260	$C_8H_{17}N_4O$	185.1404	$C_{14}H_{18}$	186.1409
$C_{11}H_{17}O_2$	181.1229	$C_{10}H_{19}N_2O$	183.1498	$C_9H_{13}O_4$	185.0814	**187**	
$C_{11}H_{19}NO$	181.1467	$C_{10}H_{21}N_3$	183.1737	$C_9H_{15}NO_3$	185.1052	$C_7H_{11}N_2O_4$	187.0719
$C_{11}H_{21}N_2$	181.1706	$C_{11}H_7N_2O$	183.0559	$C_9H_{17}N_2O_2$	185.1291	$C_7H_{13}N_3O_3$	187.0958
$C_{12}H_7NO$	181.0528	$C_{11}H_9N_3$	183.0798	$C_9H_{19}N_3O$	185.1529	$C_7H_{15}N_4O_2$	187.1196
$C_{12}H_9N_2$	181.0767	$C_{11}H_{19}O_2$	183.1385	$C_9H_{21}N_4$	185.1768	$C_8H_{13}NO_4$	187.0845
$C_{12}H_{21}O$	181.1593	$C_{11}H_{21}NO$	183.1624	$C_{10}H_7N_3O$	185.0590	$C_8H_{15}N_2O_3$	187.1083
$C_{12}H_{23}N$	181.1832	$C_{11}H_{23}N_2$	183.1863	$C_{10}H_9N_4$	185.0829	$C_8H_{17}N_3O_2$	187.1322
$C_{13}H_9O$	181.0653	$C_{12}H_7O_2$	183.0446	$C_{10}H_{17}O_3$	185.1178	$C_8H_{19}N_4O$	187.1560
$C_{13}H_{11}N$	181.0892	$C_{12}H_9NO$	183.0684	$C_{10}H_{19}NO_2$	185.1416	$C_9H_7N_4O$	187.0621
$C_{13}H_{25}$	181.1957	$C_{12}H_{11}N_2$	183.0923	$C_{10}H_{21}N_2O$	185.1655	$C_9H_{15}O_4$	187.0970
$C_{14}H_{13}$	181.1018	$C_{12}H_{23}O$	183.1750	$C_{10}H_{23}N_3$	185.1894	$C_9H_{17}NO_3$	187.1209
182		$C_{12}H_{25}N$	183.1988	$C_{11}H_9N_2O$	185.0715	$C_9H_{19}N_2O_2$	187.1447
$C_7H_6N_2O_4$	182.0328	$C_{13}H_{11}O$	183.0810	$C_{11}H_{11}N_3$	185.0954	$C_9H_{21}N_3O$	187.1686
$C_7H_8N_3O_3$	182.0566	$C_{13}H_{13}N$	183.1049	$C_{11}H_{21}O_2$	185.1542	$C_9H_{23}N_4$	187.1925
$C_7H_{10}N_4O_2$	182.0805	$C_{13}H_{27}$	183.2114	$C_{11}H_{23}NO$	185.1781	$C_{10}H_7N_2O_2$	187.0508
$C_8H_8NO_4$	182.0453	$C_{14}H_{15}$	183.1174	$C_{11}H_{25}N_2$	185.2019	$C_{10}H_9N_3O$	187.0746
$C_8H_{10}N_2O_3$	182.0692	**184**		$C_{12}H_9O_2$	185.0603	$C_{10}H_{11}N_4$	187.0985
$C_8H_{12}N_3O_2$	182.0930	$C_7H_8N_2O_4$	184.0484	$C_{12}H_{11}NO$	185.0841	$C_{10}H_{19}O_3$	187.1334
$C_8H_{14}N_4O$	182.1169	$C_7H_{10}N_3O_3$	184.0723	$C_{12}H_{13}N_2$	185.1080	$C_{10}H_{21}NO_2$	187.1573
$C_9H_{10}O_4$	182.0579	$C_7H_{12}N_4O_2$	184.0961	$C_{12}H_{25}O$	185.1906	$C_{10}H_{23}N_2O$	187.1811
$C_9H_{12}NO_3$	182.0817	$C_8H_{10}NO_4$	184.0610	$C_{12}H_{27}N$	185.2145	$C_{10}H_{25}N_3$	187.2050
$C_9H_{14}N_2O_2$	182.1056	$C_8H_{12}N_2O_3$	184.0848	$C_{13}H_{13}O$	185.0967	$C_{11}H_7O_3$	187.0395
$C_9H_{16}N_3O$	182.1295	$C_8H_{14}N_3O_2$	184.1087	$C_{13}H_{15}N$	185.1205	$C_{11}H_9NO_2$	187.0634
$C_9H_{18}N_4$	182.1533	$C_8H_{16}N_4O$	184.1325	$C_{14}H_{17}$	185.1331	$C_{11}H_{11}N_2O$	187.0872
$C_{10}H_6N_4$	182.0594	$C_9H_{12}O_4$	184.0735	**186**		$C_{11}H_{13}N_3$	187.1111
$C_{10}H_{14}O_3$	182.0943	$C_9H_{14}NO_3$	184.0974	$C_7H_{10}N_2O_4$	186.0641	$C_{11}H_{23}O_2$	187.1699
$C_{10}H_{16}NO_2$	182.1182	$C_9H_{16}N_2O_2$	184.1213	$C_7H_{12}N_3O_3$	186.0879	$C_{11}H_{25}NO$	187.1937
$C_{10}H_{18}N_2O$	182.1420	$C_9H_{18}N_3O$	184.1451	$C_7H_{14}N_4O_2$	186.1118	$C_{12}H_{11}O_2$	187.0759
$C_{10}H_{20}N_3$	182.1659	$C_9H_{20}N_4$	184.1690	$C_8H_{12}NO_4$	186.0766	$C_{12}H_{13}NO$	187.0998
$C_{11}H_8N_3$	182.0719	$C_{10}H_6N_3O$	184.0511	$C_8H_{14}N_2O_3$	186.1005	$C_{12}H_{15}N_2$	187.1236
$C_{11}H_{18}O_2$	182.1307	$C_{10}H_8N_4$	184.0750	$C_8H_{16}N_3O_2$	186.1244	$C_{13}H_{15}O$	187.1123
$C_{11}H_{20}NO$	182.1546	$C_{10}H_{16}O_3$	184.1100	$C_8H_{18}N_4O$	186.1482	$C_{13}H_{17}N$	187.1362
$C_{11}H_{22}N_2$	182.1784	$C_{10}H_{18}NO_2$	184.1338	$C_9H_6N_4O$	186.0542	$C_{14}H_{19}$	187.1488
$C_{12}H_8NO$	182.0606	$C_{10}H_{20}N_2O$	184.1577	$C_9H_{14}O_4$	186.0892	**188**	
$C_{12}H_{10}N_2$	182.0845	$C_{10}H_{22}N_3$	184.1815	$C_9H_{16}NO_3$	186.1131	$C_7H_{12}N_2O_4$	188.0797
$C_{12}H_{22}O$	182.1671	$C_{11}H_8N_2O$	184.0637	$C_9H_{18}N_2O_2$	186.1369	$C_7H_{14}N_3O_3$	188.1036
$C_{12}H_{24}N$	182.1910	$C_{11}H_{10}N_3$	184.0876	$C_9H_{20}N_3O$	186.1608	$C_7H_{16}N_4O_2$	188.1275
$C_{13}H_{10}O$	182.0732	$C_{11}H_{20}O_2$	184.1464	$C_{10}H_6N_2O_2$	186.0429	$C_8H_{14}NO_4$	188.0923

APPENDIX A *(Continued)*

FM		FM		FM		FM	
$C_8H_{16}N_2O_3$	188.1162	**190**		$C_{14}H_9N$	191.0736	$C_{13}H_{21}O$	193.1593
$C_8H_{18}N_3O_2$	188.1400	$C_7H_{14}N_2O_4$	190.0954	$C_{14}H_{23}$	191.1801	$C_{13}H_{23}N$	193.1832
$C_8H_{20}N_4O$	188.1639	$C_7H_{16}N_3O_3$	190.1193	$C_{15}H_{11}$	191.0861	$C_{14}H_9O$	193.0653
$C_9H_6N_3O_2$	188.0460	$C_7H_{18}N_4O_2$	190.1431	**192**		$C_{14}H_{11}N$	193.0892
$C_9H_8N_4O$	188.0699	$C_8H_6N_4O_2$	190.0491	$C_7H_{16}N_2O_4$	192.1111	$C_{14}H_{25}$	193.1957
$C_9H_{16}O_4$	188.1049	$C_8H_{16}NO_4$	190.1080	$C_7H_{18}N_3O_3$	192.1349	$C_{15}H_{13}$	193.1018
$C_9H_{18}NO_3$	188.1287	$C_8H_{18}N_2O_3$	190.1318	$C_7H_{20}N_4O_2$	192.1588	**194**	
$C_9H_{20}N_2O_2$	188.1526	$C_8H_{20}N_3O_2$	190.1557	$C_8H_6N_3O_3$	192.0410	$C_7H_{18}N_2O_4$	194.1267
$C_9H_{22}N_3O$	188.1764	$C_8H_{22}N_4O$	190.1795	$C_8H_8N_4O_2$	192.0648	$C_8H_6N_2O_4$	194.0328
$C_9H_{24}N_4$	188.2003	$C_9H_8N_3O_2$	190.0617	$C_8H_{18}NO_4$	192.1236	$C_8H_8N_3O_3$	194.0566
$C_{10}H_8N_2O_2$	188.0586	$C_9H_{10}N_4O$	190.0856	$C_8H_{20}N_2O_3$	192.1475	$C_8H_{10}N_4O_2$	194.0805
$C_{10}H_{10}N_3O$	188.0825	$C_9H_{18}O_4$	190.1205	$C_9H_6NO_4$	192.0297	$C_9H_8NO_4$	194.0453
$C_{10}H_{12}N_4$	188.1063	$C_9H_{20}NO_3$	190.1444	$C_9H_8N_2O_3$	192.0535	$C_9H_{10}N_2O_3$	194.0692
$C_{10}H_{20}O_3$	188.1413	$C_9H_{22}N_2O_2$	190.1682	$C_9H_{10}N_3O_2$	192.0774	$C_9H_{12}N_3O_2$	194.0930
$C_{10}H_{22}NO_2$	188.1651	$C_{10}H_8NO_3$	190.0504	$C_9H_{12}N_4O$	192.1012	$C_9H_{14}N_4O$	194.1169
$C_{10}H_{24}N_2O$	188.1890	$C_{10}H_{10}N_2O_2$	190.0743	$C_9H_{20}O_4$	192.1362	$C_{10}H_{10}O_4$	194.0579
$C_{11}H_8O_3$	188.0473	$C_{10}H_{12}N_3O$	190.0981	$C_{10}H_8O_4$	192.0422	$C_{10}H_{12}NO_3$	194.0817
$C_{11}H_{10}NO_2$	188.0712	$C_{10}H_{14}N_4$	190.1220	$C_{10}H_{10}NO_3$	192.0661	$C_{10}H_{14}N_2O_2$	194.1056
$C_{11}H_{12}N_2O$	188.0950	$C_{10}H_{22}O_3$	190.1569	$C_{10}H_{12}N_2O_2$	192.0899	$C_{10}H_{16}N_3O$	194.1295
$C_{11}H_{14}N_3$	188.1189	$C_{11}H_{10}O_3$	190.0630	$C_{10}H_{14}N_3O$	192.1138	$C_{10}H_{18}N_4$	194.1533
$C_{11}H_{24}O_2$	188.1777	$C_{11}H_{12}NO_2$	190.0868	$C_{10}H_{16}N_4$	192.1377	$C_{11}H_{14}O_3$	194.0943
$C_{12}H_{12}O_2$	188.0837	$C_{11}H_{14}N_2O$	190.1107	$C_{11}H_{12}O_3$	192.0786	$C_{11}H_{16}NO_2$	194.1182
$C_{12}H_{14}NO$	188.1076	$C_{11}H_{16}N_3$	190.1346	$C_{11}H_{14}NO_2$	192.1025	$C_{11}H_{18}N_2O$	194.1420
$C_{12}H_{16}N_2$	188.1315	$C_{12}H_{14}O_2$	190.0994	$C_{11}H_{16}N_2O$	192.1264	$C_{11}H_{20}N_3$	194.1659
$C_{13}H_{16}O$	188.1202	$C_{12}H_{16}NO$	190.1233	$C_{11}H_{18}N_3$	192.1502	$C_{12}H_8N_3$	194.0719
$C_{13}H_{18}N$	188.1440	$C_{12}H_{18}N_2$	190.1471	$C_{12}H_{16}O_2$	192.1151	$C_{12}H_{18}O_2$	194.1307
$C_{14}H_{20}$	188.1566	$C_{13}H_{18}O$	190.1358	$C_{12}H_{18}NO$	192.1389	$C_{12}H_{20}NO$	194.1546
189		$C_{13}H_{20}N$	190.1597	$C_{12}H_{20}N_2$	192.1628	$C_{12}H_{22}N_2$	194.1784
$C_7H_{13}N_2O_4$	189.0876	$C_{14}H_{22}$	190.1722	$C_{13}H_8N_2$	192.0688	$C_{13}H_8NO$	194.0606
$C_7H_{15}N_3O_3$	189.1114	$C_{15}H_{10}$	190.0783	$C_{13}H_{20}O$	192.1515	$C_{13}H_{10}N_2$	194.0845
$C_7H_{17}N_4O_2$	189.1353	**191**		$C_{13}H_{22}N$	192.1753	$C_{13}H_{22}O$	194.1671
$C_8H_{15}NO_4$	189.1001	$C_7H_{15}N_2O_4$	191.1032	$C_{14}H_{10}N$	192.0814	$C_{13}H_{24}N$	194.1910
$C_8H_{17}N_2O_3$	189.1240	$C_7H_{17}N_3O_3$	191.1271	$C_{14}H_{24}$	192.1879	$C_{14}H_{10}O$	194.0732
$C_8H_{19}N_3O_2$	189.1478	$C_7H_{19}N_4O_2$	191.1509	$C_{15}H_{12}$	192.0939	$C_{14}H_{12}N$	194.0970
$C_8H_{21}N_4O$	189.1717	$C_8H_7N_4O_2$	191.0570	**193**		$C_{14}H_{26}$	194.2036
$C_9H_7N_3O_2$	189.0539	$C_8H_{17}NO_4$	191.1158	$C_7H_{17}N_2O_4$	193.1189	$C_{15}H_{14}$	194.1096
$C_9H_9N_4O$	189.0777	$C_8H_{19}N_2O_3$	191.1396	$C_7H_{19}N_3O_3$	193.1427	**195**	
$C_9H_{17}O_4$	189.1127	$C_8H_{21}N_3O_2$	191.1635	$C_8H_7N_3O_3$	193.0488	$C_8H_7N_2O_4$	195.0406
$C_9H_{19}NO_3$	189.1365	$C_9H_7N_2O_3$	191.0457	$C_8H_9N_4O_2$	193.0726	$C_8H_9N_3O_3$	195.0644
$C_9H_{21}N_2O_2$	189.1604	$C_9H_9N_3O_2$	191.0695	$C_8H_{19}NO_4$	193.1315	$C_8H_{11}N_4O_2$	195.0883
$C_9H_{23}N_3O$	189.1842	$C_9H_{11}N_4O$	191.0934	$C_9H_7NO_4$	193.0375	$C_9H_9NO_4$	195.0532
$C_{10}H_7NO_3$	189.0426	$C_9H_{19}O_4$	191.1284	$C_9H_9N_2O_3$	193.0614	$C_9H_{11}N_2O_3$	195.0770
$C_{10}H_9N_2O_2$	189.0664	$C_9H_{21}NO_3$	191.1522	$C_9H_{11}N_3O_2$	193.0852	$C_9H_{13}N_3O_2$	195.1009
$C_{10}H_{11}N_3O$	189.0903	$C_{10}H_7O_4$	191.0344	$C_9H_{13}N_4O$	193.1091	$C_9H_{15}N_4O$	195.1247
$C_{10}H_{13}N_4$	189.1142	$C_{10}H_9NO_3$	191.0583	$C_{10}H_9O_4$	193.0501	$C_{10}H_{11}O_4$	195.0657
$C_{10}H_{21}O_3$	189.1491	$C_{10}H_{11}N_2O_2$	191.0821	$C_{10}H_{11}NO_3$	193.0739	$C_{10}H_{13}NO_3$	195.0896
$C_{10}H_{23}NO_2$	189.1730	$C_{10}H_{13}N_3O$	191.1060	$C_{10}H_{13}N_2O_2$	193.0978	$C_{10}H_{15}N_2O_2$	195.1134
$C_{11}H_9O_3$	189.0552	$C_{10}H_{15}N_4$	191.1298	$C_{10}H_{15}N_3O$	193.1216	$C_{10}H_{17}N_3O$	195.1373
$C_{11}H_{11}NO_2$	189.0790	$C_{11}H_{11}O_3$	191.0708	$C_{10}H_{17}N_4$	193.1455	$C_{10}H_{19}N_4$	195.1611
$C_{11}H_{13}N_2O$	189.1029	$C_{11}H_{13}NO_2$	191.0947	$C_{11}H_{13}O_3$	193.0865	$C_{11}H_7N_4$	195.0672
$C_{11}H_{15}N_3$	189.1267	$C_{11}H_{15}N_2O$	191.1185	$C_{11}H_{15}NO_2$	193.1103	$C_{11}H_{15}O_3$	195.1021
$C_{12}H_{13}O_2$	189.0916	$C_{11}H_{17}N_3$	191.1424	$C_{11}H_{17}N_2O$	193.1342	$C_{11}H_{17}NO_2$	195.1260
$C_{12}H_{15}NO$	189.1154	$C_{12}H_{15}O_2$	191.1072	$C_{11}H_{19}N_3$	193.1580	$C_{11}H_{19}N_2O$	195.1498
$C_{12}H_{17}N_2$	189.1393	$C_{12}H_{17}NO$	191.1311	$C_{12}H_{17}O_2$	193.1229	$C_{11}H_{21}N_3$	195.1737
$C_{13}H_{17}O$	189.1280	$C_{12}H_{19}N_2$	191.1549	$C_{12}H_{19}NO$	193.1467	$C_{12}H_7N_2O$	195.0559
$C_{13}H_{19}N$	189.1519	$C_{13}H_{19}O$	191.1436	$C_{12}H_{21}N_2$	193.1706	$C_{12}H_9N_3$	195.0798
$C_{14}H_{21}$	189.1644	$C_{13}H_{21}N$	191.1675	$C_{13}H_9N_2$	193.0767	$C_{12}H_{19}O_2$	195.1385

APPENDIX A *(Continued)*

FM		FM		FM		FM	
$C_{12}H_{21}NO$	195.1624	$C_{11}H_{17}O_3$	197.1178	$C_9H_{15}N_2O_3$	199.1083	$C_{12}H_{28}N_2$	200.2254
$C_{12}H_{23}N_2$	195.1863	$C_{11}H_{19}NO_2$	197.1416	$C_9H_{17}N_3O_2$	199.1322	$C_{13}H_{12}O_2$	200.0837
$C_{13}H_9NO$	195.0684	$C_{11}H_{21}N_2O$	197.1655	$C_9H_{19}N_4O$	199.1560	$C_{13}H_{14}NO$	200.1076
$C_{13}H_{11}N_2$	195.0923	$C_{11}H_{23}N_3$	197.1894	$C_{10}H_7N_4O$	199.0621	$C_{13}H_{16}N_2$	200.1315
$C_{13}H_{23}O$	195.1750	$C_{12}H_9N_2O$	197.0715	$C_{10}H_{15}O_4$	199.0970	$C_{13}H_{28}O$	200.2141
$C_{13}H_{25}N$	195.1988	$C_{12}H_{11}N_3$	197.0954	$C_{10}H_{17}NO_3$	199.1209	$C_{14}H_{16}O$	200.1202
$C_{14}H_{11}O$	195.0810	$C_{12}H_{21}O_2$	197.1542	$C_{10}H_{19}N_2O_2$	199.1447	$C_{14}H_{18}N$	200.1440
$C_{14}H_{13}N$	195.1049	$C_{12}H_{23}NO$	197.1781	$C_{10}H_{21}N_3O$	199.1686	$C_{15}H_{20}$	200.1566
$C_{14}H_{27}$	195.2114	$C_{12}H_{25}N_2$	197.2019	$C_{10}H_{23}N_4$	199.1925	**201**	
$C_{15}H_{15}$	195.1174	$C_{13}H_9O_2$	197.0603	$C_{11}H_7N_2O_2$	199.0508	$C_8H_{13}N_2O_4$	201.0876
196		$C_{13}H_{11}NO$	197.0841	$C_{11}H_9N_3O$	199.0746	$C_8H_{15}N_3O_3$	201.1114
$C_8H_8N_2O_4$	196.0484	$C_{13}H_{13}N_2$	197.1080	$C_{11}H_{11}N_4$	199.0985	$C_8H_{17}N_4O_2$	201.1353
$C_8H_{10}N_3O_3$	196.0723	$C_{13}H_{25}O$	197.1906	$C_{11}H_{19}O_3$	199.1334	$C_9H_{15}NO_4$	201.1001
$C_8H_{12}N_4O_2$	196.0961	$C_{13}H_{27}N$	197.2145	$C_{11}H_{21}NO_2$	199.1573	$C_9H_{17}N_2O_3$	201.1240
$C_9H_{10}NO_4$	196.0610	$C_{14}H_{13}O$	197.0967	$C_{11}H_{23}N_2O$	199.1811	$C_9H_{19}N_3O_2$	201.1478
$C_9H_{12}N_2O_3$	196.0848	$C_{14}H_{15}N$	197.1205	$C_{11}H_{25}N_3$	199.2050	$C_9H_{21}N_4O$	201.1717
$C_9H_{14}N_3O_2$	196.1087	$C_{14}H_{29}$	197.2270	$C_{12}H_9NO_2$	199.0634	$C_{10}H_7N_3O_2$	201.0539
$C_9H_{16}N_4O$	196.1325	$C_{15}H_{17}$	197.1331	$C_{12}H_{11}N_2O$	199.0872	$C_{10}H_9N_4O$	201.0777
$C_{10}H_{12}O_4$	196.0735	**198**		$C_{12}H_{13}N_3$	199.1111	$C_{10}H_{17}O_4$	201.1127
$C_{10}H_{14}NO_3$	196.0974	$C_8H_{10}N_2O_4$	198.0641	$C_{12}H_{23}O_2$	199.1699	$C_{10}H_{19}NO_3$	201.1365
$C_{10}H_{16}N_2O_2$	196.1213	$C_8H_{12}N_3O_3$	198.0879	$C_{12}H_{25}NO$	199.1937	$C_{10}H_{21}N_2O_2$	201.1604
$C_{10}H_{18}N_3O$	196.1451	$C_8H_{14}N_4O_2$	198.1118	$C_{12}H_{27}N_2$	199.2176	$C_{10}H_{23}N_3O$	201.1842
$C_{10}H_{20}N_4$	196.1690	$C_9H_{12}NO_4$	198.0766	$C_{13}H_{11}O_2$	199.0759	$C_{10}H_{25}N_4$	201.2081
$C_{11}H_8N_4$	196.0750	$C_9H_{14}N_2O_3$	198.1005	$C_{13}H_{13}NO$	199.0998	$C_{11}H_7NO_3$	201.0426
$C_{11}H_{16}O_3$	196.1100	$C_9H_{16}N_3O_2$	198.1244	$C_{13}H_{15}N_2$	199.1236	$C_{11}H_9N_2O_2$	201.0664
$C_{11}H_{18}NO_2$	196.1338	$C_9H_{18}N_4O$	198.1482	$C_{13}H_{27}O$	199.2063	$C_{11}H_{11}N_3O$	201.0903
$C_{11}H_{20}N_2O$	196.1577	$C_{10}H_{14}O_4$	198.0892	$C_{13}H_{29}N$	199.2301	$C_{11}H_{13}N_4$	201.1142
$C_{11}H_{22}N_3$	196.1815	$C_{10}H_{16}NO_3$	198.1131	$C_{14}H_{15}O$	199.1123	$C_{11}H_{21}O_3$	201.1491
$C_{12}H_8N_2O$	196.0637	$C_{10}H_{18}N_2O_2$	198.1369	$C_{14}H_{17}N$	199.1362	$C_{11}H_{23}NO_2$	201.1730
$C_{12}H_{10}N_3$	196.0876	$C_{10}H_{20}N_3O$	198.1608	$C_{15}H_{19}$	199.1488	$C_{11}H_{25}N_2O$	201.1968
$C_{12}H_{20}O_2$	196.1464	$C_{10}H_{22}N_4$	198.1846	**200**		$C_{11}H_{27}N_3$	201.2207
$C_{12}H_{22}NO$	196.1702	$C_{11}H_8N_3O$	198.0668	$C_8H_{12}N_2O_4$	200.0797	$C_{12}H_9O_3$	201.0552
$C_{12}H_{24}N_2$	196.1941	$C_{11}H_{10}N_4$	198.0907	$C_8H_{14}N_3O_3$	200.1036	$C_{12}H_{11}NO_2$	201.0790
$C_{13}H_8O_2$	196.0524	$C_{11}H_{18}O_3$	198.1256	$C_8H_{16}N_4O_2$	200.1275	$C_{12}H_{13}N_2O$	201.1029
$C_{13}H_{10}NO$	196.0763	$C_{11}H_{20}NO_2$	198.1495	$C_9H_{14}NO_4$	200.0923	$C_{12}H_{15}N_3$	201.1267
$C_{13}H_{12}N_2$	196.1001	$C_{11}H_{22}N_2O$	198.1733	$C_9H_{16}N_2O_3$	200.1162	$C_{12}H_{25}O_2$	201.1855
$C_{13}H_{24}O$	196.1828	$C_{11}H_{24}N_3$	198.1972	$C_9H_{18}N_3O_2$	200.1400	$C_{12}H_{27}NO$	201.2094
$C_{13}H_{26}N$	196.2067	$C_{12}H_8NO_2$	198.0555	$C_9H_{20}N_4O$	200.1639	$C_{13}H_{13}O_2$	201.0916
$C_{14}H_{12}O$	196.0888	$C_{12}H_{10}N_2O$	198.0794	$C_{10}H_8N_4O$	200.0699	$C_{13}H_{15}NO$	201.1154
$C_{14}H_{14}N$	196.1127	$C_{12}H_{12}N_3$	198.1032	$C_{10}H_{16}O_4$	200.1049	$C_{13}H_{17}N_2$	201.1393
$C_{14}H_{28}$	196.2192	$C_{12}H_{22}O_2$	198.1620	$C_{10}H_{18}NO_3$	200.1287	$C_{14}H_{17}O$	201.1280
$C_{15}H_{16}$	196.1253	$C_{12}H_{24}NO$	198.1859	$C_{10}H_{20}N_2O_2$	200.1526	$C_{14}H_{19}N$	201.1519
197		$C_{12}H_{26}N_2$	198.2098	$C_{10}H_{22}N_3O$	200.1764	$C_{15}H_{21}$	201.1644
$C_8H_9N_2O_4$	197.0563	$C_{13}H_{10}O_2$	198.0681	$C_{10}H_{24}N_4$	200.2003	**202**	
$C_8H_{11}N_3O_3$	197.0801	$C_{13}H_{12}NO$	198.0919	$C_{11}H_8N_2O_2$	200.0586	$C_8H_{14}N_2O_4$	202.0954
$C_8H_{13}N_4O_2$	197.1040	$C_{13}H_{14}N_2$	198.1158	$C_{11}H_{10}N_3O$	200.0825	$C_8H_{16}N_3O_3$	202.1193
$C_9H_{11}NO_4$	197.0688	$C_{13}H_{26}O$	198.1985	$C_{11}H_{12}N_4$	200.1063	$C_8H_{18}N_4O_2$	202.1431
$C_9H_{13}N_2O_3$	197.0927	$C_{13}H_{28}N$	198.2223	$C_{11}H_{20}O_3$	200.1413	$C_9H_6N_4O_2$	202.0491
$C_9H_{15}N_3O_2$	197.1165	$C_{14}H_{14}O$	198.1045	$C_{11}H_{22}NO_2$	200.1651	$C_9H_{16}NO_4$	202.1080
$C_9H_{17}N_4O$	197.1404	$C_{14}H_{16}N$	198.1284	$C_{11}H_{24}N_2O$	200.1890	$C_9H_{18}N_2O_3$	202.1318
$C_{10}H_{13}O_4$	197.0814	$C_{14}H_{30}$	198.2349	$C_{11}N_{26}N_3$	200.2129	$C_9H_{20}N_3O_2$	202.1557
$C_{10}H_{15}NO_3$	197.1052	$C_{15}H_{18}$	198.1409	$C_{12}H_8O_3$	200.0473	$C_9H_{22}N_4O$	202.1795
$C_{10}H_{17}N_2O_2$	197.1291	**199**		$C_{12}H_{10}NO_2$	200.0712	$C_{10}H_8N_3O_2$	202.0617
$C_{10}H_{19}N_3O$	197.1529	$C_8H_{11}N_2O_4$	199.0719	$C_{12}H_{12}N_2O$	200.0950	$C_{10}H_{10}N_4O$	202.0856
$C_{10}H_{21}N_4$	197.1768	$C_8H_{13}N_3O_3$	199.0958	$C_{12}H_{14}N_3$	200.1189	$C_{10}H_{18}O_4$	202.1205
$C_{11}H_7N_3O$	197.0590	$C_8H_{15}N_4O_2$	199.1196	$C_{12}H_{24}O_2$	200.1777	$C_{10}H_{20}NO_3$	202.1444
$C_{11}H_9N_4$	197.0829	$C_9H_{13}NO_4$	199.0845	$C_{12}H_{26}NO$	200.2015	$C_{10}H_{22}N_2O_2$	202.1682

APPENDIX A *(Continued)*

FM		FM		FM		FM	
$C_{10}H_{24}N_3O$	202.1921	$C_8H_{20}N_4O_2$	204.1588	$C_{13}H_{21}N_2$	205.1706	$C_{11}H_{19}N_4$	207.1611
$C_{10}H_{26}N_4$	202.2160	$C_9H_6N_3O_3$	204.0410	$C_{14}H_9N_2$	205.0767	$C_{12}H_{15}O_3$	207.1021
$C_{11}H_8NO_3$	202.0504	$C_9H_8N_4O_2$	204.0648	$C_{14}H_{21}O$	205.1593	$C_{12}H_{17}NO_2$	207.1260
$C_{11}H_{10}N_2O_2$	202.0743	$C_9H_{18}NO_4$	204.1236	$C_{14}H_{23}N$	205.1832	$C_{12}H_{19}N_2O$	207.1498
$C_{11}H_{12}N_3O$	202.0981	$C_9H_{20}N_2O_3$	204.1475	$C_{15}H_9O$	205.0653	$C_{12}H_{21}N_3$	207.1737
$C_{11}H_{14}N_4$	202.1220	$C_9H_{22}N_3O_2$	204.1713	$C_{15}H_{11}N$	205.0892	$C_{13}H_9N_3$	207.0798
$C_{11}H_{22}O_3$	202.1569	$C_9H_{24}N_4O$	204.1952	$C_{15}H_{25}$	205.1957	$C_{13}H_{19}O_2$	207.1385
$C_{11}H_{24}NO_2$	202.1808	$C_{10}H_8N_2O_3$	204.0535	$C_{16}H_{13}$	205.1018	$C_{13}H_{21}NO$	207.1624
$C_{11}H_{26}N_2O$	202.2046	$C_{10}H_{10}N_3O_2$	204.0774	**206**		$C_{13}H_{23}N_2$	207.1863
$C_{12}H_{10}O_3$	202.0630	$C_{10}H_{12}N_4O$	204.1012	$C_8H_{18}N_2O_4$	206.1267	$C_{14}H_9NO$	207.0684
$C_{12}H_{12}NO_2$	202.0868	$C_{10}H_{20}O_4$	204.1362	$C_8H_{20}N_3O_3$	206.1506	$C_{14}H_{11}N_2$	207.0923
$C_{12}H_{14}N_2O$	202.1107	$C_{10}H_{22}NO_3$	204.1600	$C_8H_{22}N_4O_2$	206.1744	$C_{14}H_{23}O$	207.1750
$C_{12}H_{16}N_3$	202.1346	$C_{10}H_{24}N_2O_2$	204.1839	$C_9H_6N_2O_4$	206.0328	$C_{14}H_{25}N$	207.1988
$C_{12}H_{26}O_2$	202.1934	$C_{11}H_8O_4$	204.0422	$C_9H_8N_3O_3$	206.0566	$C_{15}H_{11}O$	207.0810
$C_{13}H_{14}O_2$	202.0994	$C_{11}H_{10}NO_3$	204.0661	$C_9H_{10}N_4O_2$	206.0805	$C_{15}H_{13}N$	207.1049
$C_{13}H_{16}NO$	202.1233	$C_{11}H_{12}N_2O_2$	204.0899	$C_9H_{20}NO_4$	206.1393	$C_{15}H_{27}$	207.2114
$C_{13}H_{18}N_2$	202.1471	$C_{11}H_{14}N_3O$	204.1138	$C_9H_{22}N_2O_3$	206.1631	$C_{16}H_{15}$	207.1174
$C_{14}H_{18}O$	202.1358	$C_{11}H_{16}N_4$	204.1377	$C_{10}H_8NO_4$	206.0453	**208**	
$C_{14}H_{20}N$	202.1597	$C_{11}H_{24}O_3$	204.1726	$C_{10}H_{10}N_2O_3$	206.0692	$C_8H_{20}N_2O_4$	208.1424
$C_{15}H_{22}$	202.1722	$C_{12}H_{12}O_3$	204.0786	$C_{10}H_{12}N_3O_2$	206.0930	$C_9H_8N_2O_4$	208.0484
203		$C_{12}H_{14}NO_2$	204.1025	$C_{10}H_{14}N_4O$	206.1169	$C_9H_{10}N_3O_3$	208.0723
$C_8H_{15}N_2O_4$	203.1032	$C_{12}H_{16}N_2O$	204.1264	$C_{10}H_{22}O_4$	206.1518	$C_9H_{12}N_4O_2$	208.0961
$C_8H_{17}N_3O_3$	203.1271	$C_{12}H_{18}N_3$	204.1502	$C_{11}H_{10}O_4$	206.0579	$C_{10}H_{10}NO_4$	208.0610
$C_8H_{19}N_4O_2$	203.1509	$C_{13}H_{16}O_2$	204.1151	$C_{11}H_{12}NO_3$	206.0817	$C_{10}H_{12}N_2O_3$	208.0848
$C_9H_7N_4O_2$	203.0570	$C_{13}H_{18}NO$	204.1389	$C_{11}H_{14}N_2O_2$	206.1056	$C_{10}H_{14}N_3O_2$	208.1087
$C_9H_{17}NO_4$	203.1158	$C_{13}H_{20}N_2$	204.1628	$C_{11}H_{16}N_3O$	206.1295	$C_{10}H_{16}N_4O$	208.1325
$C_9H_{19}N_2O_3$	203.1396	$C_{14}H_{20}O$	204.1515	$C_{11}H_{18}N_4$	206.1533	$C_{11}H_{12}O_4$	208.0735
$C_9H_{21}N_3O_2$	203.1635	$C_{14}H_{22}N$	204.1753	$C_{12}H_{14}O_3$	206.0943	$C_{11}H_{14}NO_3$	208.0974
$C_9H_{23}N_4O$	203.1873	$C_{15}H_{10}N$	204.0814	$C_{12}H_{16}NO_2$	206.1182	$C_{11}H_{16}N_2O_2$	208.1213
$C_{10}H_7N_2O_3$	203.0457	$C_{15}H_{24}$	204.1879	$C_{12}H_{18}N_2O$	206.1420	$C_{11}H_{18}N_3O$	208.1451
$C_{10}H_9N_3O_2$	203.0695	$C_{16}H_{12}$	204.0939	$C_{12}H_{20}N_3$	206.1659	$C_{11}H_{20}N_4$	208.1690
$C_{10}H_{11}N_4O$	203.0934	**205**		$C_{13}H_8N_3$	206.0719	$C_{12}H_8N_4$	208.0750
$C_{10}H_{19}O_4$	203.1284	$C_8H_{17}N_2O_4$	205.1189	$C_{13}H_{18}O_2$	206.1307	$C_{12}H_{16}O_3$	208.1100
$C_{10}H_{21}NO_3$	203.1522	$C_8H_{19}N_3O_3$	205.1427	$C_{13}H_{20}NO$	206.1546	$C_{12}H_{18}NO_2$	208.1338
$C_{10}H_{23}N_2O_2$	203.1761	$C_8H_{21}N_4O_2$	205.1666	$C_{13}H_{22}N_2$	206.1784	$C_{12}H_{20}N_2O$	208.1577
$C_{10}H_{25}N_3O$	203.1999	$C_9H_7N_3O_3$	205.0488	$C_{14}H_{10}N_2$	206.0845	$C_{12}H_{22}N_3$	208.1815
$C_{11}H_7O_4$	203.0344	$C_9H_9N_4O_2$	205.0726	$C_{14}H_{22}O$	206.1671	$C_{13}H_8N_2O$	208.0637
$C_{11}H_9NO_3$	203.0583	$C_9H_{19}NO_4$	205.1315	$C_{14}H_{24}N$	206.1910	$C_{13}H_{10}N_3$	208.0876
$C_{11}H_{11}N_2O_2$	203.0821	$C_9H_{21}N_2O_3$	205.1553	$C_{15}H_{10}O$	206.0732	$C_{13}H_{20}O_2$	208.1464
$C_{11}H_{13}N_3O$	203.1060	$C_9H_{23}N_3O_2$	205.1791	$C_{15}H_{12}N$	206.0970	$C_{13}H_{22}NO$	208.1702
$C_{11}H_{15}N_4$	203.1298	$C_{10}H_7NO_4$	205.0375	$C_{15}H_{26}$	206.2036	$C_{13}H_{24}N_2$	208.1941
$C_{11}H_{23}O_3$	203.1648	$C_{10}H_9N_2O_3$	205.0614	$C_{16}H_{14}$	206.1096	$C_{14}H_{10}NO$	208.0763
$C_{11}H_{25}NO_2$	203.1886	$C_{10}H_{11}N_3O_2$	205.0852	**207**		$C_{14}H_{12}N_2$	208.1001
$C_{12}H_{11}O_3$	203.0708	$C_{10}H_{13}N_4O$	205.1091	$C_8H_{19}N_2O_4$	207.1345	$C_{14}H_{24}O$	208.1828
$C_{12}H_{13}NO_2$	203.0947	$C_{10}H_{21}O_4$	205.1440	$C_8H_{21}N_3O_3$	207.1584	$C_{14}H_{26}N$	208.2067
$C_{12}H_{15}N_2O$	203.1185	$C_{10}H_{23}NO_3$	205.1679	$C_9H_7N_2O_4$	207.0406	$C_{15}H_{12}O$	208.0888
$C_{12}H_{17}N_3$	203.1424	$C_{11}H_9O_4$	205.0501	$C_9H_9N_3O_3$	207.0644	$C_{15}H_{14}N$	208.1127
$C_{13}H_{15}O_2$	203.1072	$C_{11}H_{11}NO_3$	205.0739	$C_9H_{11}N_4O_2$	207.0883	$C_{15}H_{28}$	208.2192
$C_{13}H_{17}NO$	203.1311	$C_{11}H_{13}N_2O_2$	205.0978	$C_9H_{21}NO_4$	207.1471	$C_{16}H_{16}$	208.1253
$C_{13}H_{19}N_2$	203.1549	$C_{11}H_{15}N_3O$	205.1216	$C_{10}H_9NO_4$	207.0532	**209**	
$C_{14}H_{19}O$	203.1436	$C_{11}H_{17}N_4$	205.1455	$C_{10}H_{11}N_2O_3$	207.0770	$C_9H_9N_2O_4$	209.0563
$C_{14}H_{21}N$	203.1675	$C_{12}H_{13}O_3$	205.0865	$C_{10}H_{13}N_3O_2$	207.1009	$C_9H_{11}N_3O_3$	209.0801
$C_{15}H_9N$	203.0736	$C_{12}H_{15}NO_2$	205.1103	$C_{10}H_{15}N_4O$	207.1247	$C_9H_{13}N_4O_2$	209.1040
$C_{15}H_{23}$	203.1801	$C_{12}H_{17}N_2O$	205.1342	$C_{11}H_{11}O_4$	207.0657	$C_{10}H_{11}NO_4$	209.0688
204		$C_{12}H_{19}N_3$	205.1580	$C_{11}H_{13}NO_3$	207.0896	$C_{10}H_{13}N_2O_3$	209.0927
$C_8H_{16}N_2O_4$	204.1111	$C_{13}H_{17}O_2$	205.1229	$C_{11}H_{15}N_2O_2$	207.1134	$C_{10}H_{15}N_3O_2$	209.1165
$C_8H_{18}N_3O_3$	204.1349	$C_{13}H_{19}NO$	205.1467	$C_{11}H_{17}N_3O$	207.1373	$C_{10}H_{17}N_4O$	209.1404

APPENDIX A *(Continued)*

FM		FM		FM		FM	
$C_{11}H_{13}O_4$	209.0814	$C_{16}H_{18}$	210.1409	$C_{13}H_8O_3$	212.0473	$C_{10}H_{18}N_2O_3$	214.1318
$C_{11}H_{15}NO_3$	209.1052	**211**		$C_{13}H_{10}NO_2$	212.0712	$C_{10}H_{20}N_3O_2$	214.1557
$C_{11}H_{17}N_2O_2$	209.1291	$C_9H_{11}N_2O_4$	211.0719	$C_{13}H_{12}N_2O$	212.0950	$C_{10}H_{22}N_4O$	214.1795
$C_{11}H_{19}N_3O$	209.1529	$C_9H_{13}N_3O_3$	211.0958	$C_{13}H_{14}N_3$	212.1189	$C_{11}H_8N_3O_2$	214.0617
$C_{11}H_{21}N_4$	209.1768	$C_9H_{15}N_4O_2$	211.1196	$C_{13}H_{24}O_2$	212.1777	$C_{11}H_{10}N_4O$	214.0856
$C_{12}H_9N_4$	209.0829	$C_{10}H_{13}NO_4$	211.0845	$C_{13}H_{26}NO$	212.2015	$C_{11}H_{18}O_4$	214.1205
$C_{12}H_{17}O_3$	209.1178	$C_{10}H_{15}N_2O_3$	211.1083	$C_{13}H_{28}N_2$	212.2254	$C_{11}H_{20}NO_3$	214.1444
$C_{12}H_{19}NO_2$	209.1416	$C_{10}H_{17}N_3O_2$	211.1322	$C_{14}H_{12}O_2$	212.0837	$C_{11}H_{22}N_2O_2$	214.1682
$C_{12}H_{21}N_2O$	209.1655	$C_{10}H_{19}N_4O$	211.1560	$C_{14}H_{14}NO$	212.1076	$C_{11}H_{24}N_3O$	214.1921
$C_{12}H_{23}N_3$	209.1894	$C_{11}H_7N_4O$	211.0621	$C_{14}H_{16}N_2$	212.1315	$C_{11}H_{26}N_4$	214.2160
$C_{13}H_9N_2O$	209.0715	$C_{11}H_{15}O_4$	211.0970	$C_{14}H_{28}O$	212.2141	$C_{12}H_8NO_3$	214.0504
$C_{13}H_{11}N_3$	209.0954	$C_{11}H_{17}NO_3$	211.1209	$C_{14}H_{30}N$	212.2380	$C_{12}H_{10}N_2O_2$	214.0743
$C_{13}H_{21}O_2$	209.1542	$C_{11}H_{19}N_2O_2$	211.1447	$C_{15}H_{16}O$	212.1202	$C_{12}H_{12}N_3O$	214.0981
$C_{13}H_{23}NO$	209.1781	$C_{11}H_{21}N_3O$	211.1686	$C_{15}H_{18}N$	212.1440	$C_{12}H_{14}N_4$	214.1220
$C_{13}H_{25}N_2$	209.2019	$C_{11}H_{23}N_4$	211.1925	$C_{15}H_{32}$	212.2505	$C_{12}H_{22}O_3$	214.1569
$C_{14}H_9O_2$	209.0603	$C_{12}H_9N_3O$	211.0746	$C_{16}H_{20}$	212.1566	$C_{12}H_{24}NO_2$	214.1808
$C_{14}H_{11}NO$	209.0841	$C_{12}H_{11}N_4$	211.0985	**213**		$C_{12}H_{26}N_2O$	214.2046
$C_{14}H_{13}N_2$	209.1080	$C_{12}H_{19}O_3$	211.1334	$C_9H_{13}N_2O_4$	213.0876	$C_{12}H_{28}N_3$	214.2285
$C_{14}H_{25}O$	209.1906	$C_{12}H_{21}NO_2$	211.1573	$C_9H_{15}N_3O_3$	213.1114	$C_{13}H_{10}O_3$	214.0630
$C_{14}H_{27}N$	209.2145	$C_{12}H_{23}N_2O$	211.1811	$C_9H_{17}N_4O_2$	213.1353	$C_{13}H_{12}NO_2$	214.0869
$C_{15}H_{13}O$	209.0967	$C_{12}H_{25}N_3$	211.2050	$C_{10}H_{15}NO_4$	213.1001	$C_{13}H_{14}N_2O$	214.1107
$C_{15}H_{15}N$	209.1205	$C_{13}H_9NO_2$	211.0634	$C_{10}H_{17}N_2O_3$	213.1240	$C_{13}H_{16}N_3$	214.1346
$C_{15}H_{29}$	209.2270	$C_{13}H_{11}N_2O$	211.0872	$C_{10}H_{19}N_3O_2$	213.1478	$C_{13}H_{26}O_2$	214.1934
$C_{16}H_{17}$	209.1331	$C_{13}H_{13}N_3$	211.1111	$C_{10}H_{21}N_4O$	213.1717	$C_{13}H_{28}NO$	214.2172
210		$C_{13}H_{23}O_2$	211.1699	$C_{11}H_7N_3O_2$	213.0539	$C_{13}H_{30}N_2$	214.2411
$C_9H_{10}N_2O_4$	210.0641	$C_{13}H_{25}NO$	211.1937	$C_{11}H_9N_4O$	213.0777	$C_{14}H_{14}O_2$	214.0994
$C_9H_{12}N_3O_3$	210.0879	$C_{13}H_{27}N_2$	211.2176	$C_{11}H_{17}O_4$	213.1127	$C_{14}H_{16}NO$	214.1233
$C_9H_{14}N_4O_2$	210.1118	$C_{14}H_{11}O_2$	211.0759	$C_{11}H_{19}NO_3$	213.1365	$C_{14}H_{18}N_2$	214.1471
$C_{10}H_{12}NO_4$	210.0766	$C_{14}H_{13}NO$	211.0998	$C_{11}H_{21}N_2O_2$	213.1604	$C_{15}H_{18}O$	214.1358
$C_{10}H_{14}N_2O_3$	210.1005	$C_{14}H_{15}N_2$	211.1236	$C_{11}H_{23}N_3O$	213.1842	$C_{15}H_{20}N$	214.1597
$C_{10}H_{16}N_3O_2$	210.1244	$C_{14}H_{27}O$	211.2063	$C_{11}H_{25}N_4$	213.2081	$C_{16}H_{22}$	214.1722
$C_{10}H_{18}N_4O$	210.1482	$C_{14}H_{29}N$	211.2301	$C_{12}H_9N_2O_2$	213.0664	**215**	
$C_{11}H_{14}O_4$	210.0892	$C_{15}H_{15}O$	211.1123	$C_{12}H_{11}N_3O$	213.0903	$C_9H_{15}N_2O_4$	215.1032
$C_{11}H_{16}NO_3$	210.1131	$C_{15}H_{17}N$	211.1362	$C_{12}H_{13}N_4$	213.1142	$C_9H_{17}N_3O_3$	215.1271
$C_{11}H_{18}N_2O_2$	210.1369	$C_{15}H_{31}$	211.2427	$C_{12}H_{21}O_3$	213.1491	$C_9H_{19}N_4O_2$	215.1509
$C_{11}H_{20}N_3O$	210.1608	$C_{16}H_{19}$	211.1488	$C_{12}H_{23}NO_2$	213.1730	$C_{10}H_7N_4O_2$	215.0570
$C_{11}H_{22}N_4$	210.1846	**212**		$C_{12}H_{25}N_2O$	213.1968	$C_{10}H_{17}NO_4$	215.1158
$C_{12}H_8N_3O$	210.0668	$C_9H_{12}N_2O_4$	212.0797	$C_{12}H_{27}N_3$	213.2207	$C_{10}H_{19}N_2O_3$	215.1396
$C_{12}H_{10}N_4$	210.0907	$C_9H_{14}N_3O_3$	212.1036	$C_{13}H_9O_3$	213.0552	$C_{10}H_{21}N_3O_2$	215.1635
$C_{12}H_{18}O_3$	210.1256	$C_9H_{16}N_4O_2$	212.1275	$C_{13}H_{11}NO_2$	213.0790	$C_{10}H_{23}N_4O$	215.1873
$C_{12}H_{20}NO_2$	210.1495	$C_{10}H_{14}NO_4$	212.0923	$C_{13}H_{13}N_2O$	213.1029	$C_{11}H_7N_2O_3$	215.0457
$C_{12}H_{22}N_2O$	210.1733	$C_{10}H_{16}N_2O_3$	212.1162	$C_{13}H_{15}N_3$	213.1267	$C_{11}H_9N_3O_2$	215.0695
$C_{12}H_{24}N_3$	210.1972	$C_{10}H_{18}N_3O_2$	212.1400	$C_{13}H_{25}O_2$	213.1855	$C_{11}H_{11}N_4O$	215.0934
$C_{13}H_8NO_2$	210.0555	$C_{10}H_{20}N_4O$	212.1639	$C_{13}H_{27}NO$	213.2094	$C_{11}H_{19}O_4$	215.1284
$C_{13}H_{10}N_2O$	210.0794	$C_{11}H_8N_4O$	212.0699	$C_{13}H_{29}N_2$	213.2332	$C_{11}H_{21}NO_3$	215.1522
$C_{13}H_{12}N_3$	210.1032	$C_{11}H_{16}O_4$	212.1049	$C_{14}H_{13}O_2$	213.0916	$C_{11}H_{23}N_2O_2$	215.1761
$C_{13}H_{22}O_2$	210.1620	$C_{11}H_{18}NO_3$	212.1287	$C_{14}H_{15}NO$	213.1154	$C_{11}H_{25}N_3O$	215.1999
$C_{13}H_{24}NO$	210.1859	$C_{11}H_{20}N_2O_2$	212.1526	$C_{14}H_{17}N_2$	213.1393	$C_{11}H_{27}N_4$	215.2238
$C_{13}H_{26}N_2$	210.2098	$C_{11}H_{22}N_3O$	212.1764	$C_{14}H_{29}O$	213.2219	$C_{12}H_9NO_3$	215.0583
$C_{14}H_{10}O_2$	210.0681	$C_{11}H_{24}N_4$	212.2003	$C_{15}H_{17}O$	213.1280	$C_{12}H_{11}N_2O_2$	215.0821
$C_{14}H_{12}NO$	210.0919	$C_{12}H_8N_2O_2$	212.0586	$C_{15}H_{19}N$	213.1519	$C_{12}H_{13}N_3O$	215.1060
$C_{14}H_{14}N_2$	210.1158	$C_{12}H_{10}N_3O$	212.0825	$C_{16}H_{21}$	213.1644	$C_{12}H_{15}N_4$	215.1298
$C_{14}H_{26}O$	210.1985	$C_{12}H_{12}N_4$	212.1063	**214**		$C_{12}H_{23}O_3$	215.1648
$C_{14}H_{28}N$	210.2223	$C_{12}H_{20}O_3$	212.1413	$C_9H_{14}N_2O_4$	214.0954	$C_{12}H_{25}NO_2$	215.1886
$C_{15}H_{14}O$	210.1045	$C_{12}H_{22}NO_2$	212.1651	$C_9H_{16}N_3O_3$	214.1193	$C_{12}H_{27}N_2O$	215.2125
$C_{15}H_{16}N$	210.1284	$C_{12}H_{24}N_2O$	212.1890	$C_9H_{18}N_4O_2$	214.1431	$C_{12}H_{29}N_3$	215.2363
$C_{15}H_{30}$	210.2349	$C_{12}H_{26}N_3$	212.2129	$C_{10}H_{16}NO_4$	214.1080	$C_{13}H_{11}O_3$	215.0708

APPENDIX A *(Continued)*

FM		FM		FM		FM	
$C_{13}H_{13}NO_2$	215.0947	$C_{11}H_7NO_4$	217.0375	$C_{14}H_{22}N_2$	218.1784	$C_{11}H_{16}N_4O$	220.1325
$C_{13}H_{15}N_2O$	215.1185	$C_{11}H_9N_2O_3$	217.0614	$C_{15}H_{10}N_2$	218.0845	$C_{12}H_{12}O_4$	220.0735
$C_{13}H_{17}N_3$	215.1424	$C_{11}H_{11}N_3O_2$	217.0852	$C_{15}H_{22}O$	218.1671	$C_{12}H_{14}NO_3$	220.0974
$C_{14}H_{15}O_2$	215.1072	$C_{11}H_{13}N_4O$	217.1091	$C_{15}H_{24}N$	218.1910	$C_{12}H_{16}N_2O_2$	220.1213
$C_{14}H_{17}NO$	215.1311	$C_{11}H_{21}O_4$	217.1440	$C_{16}H_{10}O$	218.0732	$C_{12}H_{18}N_3O$	220.1451
$C_{14}H_{19}N_2$	215.1549	$C_{11}H_{23}NO_3$	217.1679	$C_{16}H_{12}N$	218.0970	$C_{12}H_{20}N_4$	220.1690
$C_{15}H_{19}O$	215.1436	$C_{11}H_{25}N_2O_2$	217.1917	$C_{16}H_{26}$	218.2036	$C_{13}H_8N_4$	220.0750
$C_{15}H_{21}N$	215.1675	$C_{11}H_{27}N_3O$	217.2156	$C_{17}H_{14}$	218.1096	$C_{13}H_{16}O_3$	220.1100
$C_{16}H_{23}$	215.1801	$C_{12}H_9O_4$	217.0501	**219**		$C_{13}H_{18}NO_2$	220.1338
216		$C_{12}H_{11}NO_3$	217.0739	$C_9H_{19}N_2O_4$	219.1345	$C_{13}H_{20}N_2O$	220.1577
$C_9H_{16}N_2O_4$	216.1111	$C_{12}H_{13}N_2O_2$	217.0978	$C_9H_{21}N_3O_3$	219.1584	$C_{13}H_{22}N_3$	220.1815
$C_9H_{18}N_3O_3$	216.1349	$C_{12}H_{15}N_3O$	217.1216	$C_9H_{23}N_4O_2$	219.1822	$C_{14}H_{10}N_3$	220.0876
$C_9H_{20}N_4O_2$	216.1588	$C_{12}H_{17}N_4$	217.1455	$C_{10}H_7N_2O_4$	219.0406	$C_{14}H_{20}O_2$	220.1464
$C_{10}H_8N_4O_2$	216.0648	$C_{12}H_{25}O_3$	217.1804	$C_{10}H_9N_3O_3$	219.0644	$C_{14}H_{22}NO$	220.1702
$C_{10}H_{18}NO_4$	216.1236	$C_{12}H_{27}NO_2$	217.2043	$C_{10}H_{11}N_4O_2$	219.0883	$C_{14}H_{24}N_2$	220.1941
$C_{10}H_{20}N_2O_3$	216.1475	$C_{13}H_{13}O_3$	217.0865	$C_{10}H_{21}NO_4$	219.1471	$C_{15}H_{10}NO$	220.0763
$C_{10}H_{22}N_3O_2$	216.1713	$C_{13}H_{15}NO_2$	217.1103	$C_{10}H_{23}N_2O_3$	219.1710	$C_{15}H_{12}N_2$	220.1001
$C_{10}H_{24}N_4O$	216.1952	$C_{13}H_{17}N_2O$	217.1342	$C_{10}H_{25}N_3O_2$	219.1948	$C_{15}H_{24}O$	220.1828
$C_{11}H_8N_2O_3$	216.0535	$C_{13}H_{19}N_3$	217.1580	$C_{11}H_9NO_4$	219.0532	$C_{15}H_{26}N$	220.2067
$C_{11}H_{10}N_3O_2$	216.0774	$C_{14}H_{17}O_2$	217.1229	$C_{11}H_{11}N_2O_3$	219.0770	$C_{16}H_{12}O$	220.0888
$C_{11}H_{12}N_4O$	216.1012	$C_{14}H_{19}NO$	217.1467	$C_{11}H_{13}N_3O_2$	219.1009	$C_{16}H_{14}N$	220.1127
$C_{11}H_{20}O_4$	216.1362	$C_{14}H_{21}N_2$	217.1706	$C_{11}H_{15}N_4O$	219.1247	$C_{16}H_{28}$	220.2192
$C_{11}H_{22}NO_3$	216.1600	$C_{15}H_9N_2$	217.0767	$C_{11}H_{23}O_4$	219.1597	$C_{17}H_{16}$	220.1253
$C_{11}H_{24}N_2O_2$	216.1839	$C_{15}H_{21}O$	217.1593	$C_{11}H_{25}NO_3$	219.1835	**221**	
$C_{11}H_{26}N_3O$	216.2077	$C_{15}H_{23}N$	217.1832	$C_{12}H_{11}O_4$	219.0657	$C_9H_{21}N_2O_4$	221.1502
$C_{11}H_{28}N_4$	216.2316	$C_{16}H_{11}N$	217.0892	$C_{12}H_{13}NO_3$	219.0896	$C_9H_{23}N_3O_3$	221.1741
$C_{12}H_8O_4$	216.0422	$C_{16}H_{25}$	217.1957	$C_{12}H_{15}N_2O_2$	219.1134	$C_{10}H_9N_2O_4$	221.0563
$C_{12}H_{10}NO_3$	216.0661	$C_{17}H_{13}$	217.1018	$C_{12}H_{17}N_3O$	219.1373	$C_{10}H_{11}N_3O_3$	221.0801
$C_{12}H_{12}N_2O_2$	216.0899	**218**		$C_{12}H_{19}N_4$	219.1611	$C_{10}H_{13}N_4O_2$	221.1040
$C_{12}H_{14}N_3O$	216.1138	$C_9H_{18}N_2O_4$	218.1267	$C_{13}H_{15}O_3$	219.1021	$C_{10}H_{23}NO_4$	221.1628
$C_{12}H_{16}N_4$	216.1377	$C_9H_{20}N_3O_3$	218.1506	$C_{13}H_{17}NO_2$	219.1260	$C_{11}H_{11}NO_4$	221.0688
$C_{12}H_{24}O_3$	216.1726	$C_9H_{22}N_4O_2$	218.1744	$C_{13}H_{19}N_2O$	219.1498	$C_{11}H_{13}N_2O_3$	221.0927
$C_{12}H_{26}NO_2$	216.1965	$C_{10}H_8N_3O_3$	218.0566	$C_{13}H_{21}N_3$	219.1737	$C_{11}H_{15}N_3O_2$	221.1165
$C_{12}H_{28}N_2O$	216.2203	$C_{10}H_{10}N_4O_2$	218.0805	$C_{14}H_9N_3$	219.0798	$C_{11}H_{17}N_4O$	221.1404
$C_{13}H_{12}O_3$	216.0786	$C_{10}H_{20}NO_4$	218.1393	$C_{14}H_{19}O_2$	219.1385	$C_{12}H_{13}O_4$	221.0814
$C_{13}H_{14}NO_2$	216.1025	$C_{10}H_{22}N_2O_3$	218.1631	$C_{14}H_{21}NO$	219.1624	$C_{12}H_{15}NO_3$	221.1052
$C_{13}H_{16}N_2O$	216.1264	$C_{10}H_{24}N_3O_2$	218.1870	$C_{14}H_{23}N_2$	219.1863	$C_{12}H_{17}N_2O_2$	221.1291
$C_{13}H_{18}N_3$	216.1502	$C_{10}H_{26}N_4O$	218.2108	$C_{15}H_9NO$	219.0684	$C_{12}H_{19}N_3O$	221.1529
$C_{13}H_{28}O_2$	216.2090	$C_{11}H_8NO_4$	218.0453	$C_{15}H_{11}N_2$	219.0923	$C_{12}H_{21}N_4$	221.1768
$C_{14}H_{16}O_2$	216.1151	$C_{11}H_{10}N_2O_3$	218.0692	$C_{15}H_{23}O$	219.1750	$C_{13}H_9N_4$	221.0829
$C_{14}H_{18}NO$	216.1389	$C_{11}H_{12}N_3O_2$	218.0930	$C_{15}H_{25}N$	219.1988	$C_{13}H_{17}O_3$	221.1178
$C_{14}H_{20}N_2$	216.1628	$C_{11}H_{14}N_4O$	218.1169	$C_{16}H_{11}O$	219.0810	$C_{13}H_{19}NO_2$	221.1416
$C_{15}H_{20}O$	216.1515	$C_{11}H_{22}O_4$	218.1518	$C_{16}H_{13}N$	219.1049	$C_{13}H_{21}N_2O$	221.1655
$C_{15}H_{22}N$	216.1753	$C_{11}H_{24}NO_3$	218.1757	$C_{16}H_{27}$	219.2114	$C_{13}H_{23}N_3$	221.1894
$C_{16}H_{10}N$	216.0814	$C_{11}H_{26}N_2O_2$	218.1996	$C_{17}H_{15}$	219.1174	$C_{14}H_9N_2O$	221.0715
$C_{16}H_{24}$	216.1879	$C_{12}H_{10}O_4$	218.0579	**220**		$C_{14}H_{11}N_3$	221.0954
$C_{17}H_{12}$	216.0939	$C_{12}H_{12}NO_3$	218.0817	$C_9H_{20}N_2O_4$	220.1424	$C_{14}H_{21}O_2$	221.1542
217		$C_{12}H_{14}N_2O_2$	218.1056	$C_9H_{22}N_3O_3$	220.1662	$C_{14}H_{23}NO$	221.1781
$C_9H_{17}N_2O_4$	217.1189	$C_{12}H_{16}N_3O$	218.1295	$C_9H_{24}N_4O_2$	220.1901	$C_{14}H_{25}N_2$	221.2019
$C_9H_{19}N_3O_3$	217.1427	$C_{12}H_{18}N_4$	218.1533	$C_{10}H_8N_2O_4$	220.0484	$C_{15}H_9O_2$	221.0603
$C_9H_{21}N_4O_2$	217.1666	$C_{12}H_{26}O_3$	218.1883	$C_{10}H_{10}N_3O_3$	220.0723	$C_{15}H_{11}NO$	221.0841
$C_{10}H_7N_3O_3$	217.0488	$C_{13}H_{14}O_3$	218.0943	$C_{10}H_{12}N_4O_2$	220.0961	$C_{15}H_{13}N_2$	221.1080
$C_{10}H_9N_4O_2$	217.0726	$C_{13}H_{16}NO_2$	218.1182	$C_{10}H_{22}NO_4$	220.1549	$C_{15}H_{25}O$	221.1906
$C_{10}H_{19}NO_4$	217.1315	$C_{13}H_{18}N_2O$	218.1420	$C_{10}H_{24}N_2O_3$	220.1788	$C_{15}H_{27}N$	221.2145
$C_{10}H_{21}N_2O_3$	217.1553	$C_{13}H_{20}N_3$	218.1659	$C_{11}H_{10}NO_4$	220.0610	$C_{16}H_{13}O$	221.0967
$C_{10}H_{23}N_3O_2$	217.1791	$C_{14}H_{18}O_2$	218.1307	$C_{11}H_{12}N_2O_3$	220.0848	$C_{16}H_{15}N$	221.1205
$C_{10}H_{25}N_4O$	217.2030	$C_{14}H_{20}NO$	218.1546	$C_{11}H_{14}N_3O_2$	220.1087	$C_{16}H_{29}$	221.2270

APPENDIX A *(Continued)*

FM		FM		FM		FM	
$C_{17}H_{17}$	221.1331	$C_{14}H_9NO_2$	223.0634	$C_{11}H_{21}N_4O$	225.1717	$C_{14}H_{28}NO$	226.2172
222		$C_{14}H_{11}N_2O$	223.0872	$C_{12}H_9N_4O$	225.0777	$C_{14}H_{30}N_2$	226.2411
$C_9H_{22}N_2O_4$	222.1580	$C_{14}H_{13}N_3$	223.1111	$C_{12}H_{17}O_4$	225.1127	$C_{15}H_{14}O_2$	226.0994
$C_{10}H_{10}N_2O_4$	222.0641	$C_{14}H_{23}O_2$	223.1699	$C_{12}H_{19}NO_3$	225.1365	$C_{15}H_{16}NO$	226.1233
$C_{10}H_{12}N_3O_3$	222.0879	$C_{14}H_{25}NO$	223.1937	$C_{12}H_{21}N_2O_2$	225.1604	$C_{15}H_{18}N_2$	226.1471
$C_{10}H_{14}N_4O_2$	222.1118	$C_{14}H_{27}N_2$	223.2176	$C_{12}H_{23}N_3O$	225.1842	$C_{15}H_{30}O$	226.2298
$C_{11}H_{12}NO_4$	222.0766	$C_{15}H_{11}O_2$	223.0759	$C_{12}H_{25}N_4$	225.2081	$C_{15}H_{32}N$	226.2536
$C_{11}H_{14}N_2O_3$	222.1005	$C_{15}H_{13}NO$	223.0998	$C_{13}H_9N_2O_2$	225.0664	$C_{16}H_{18}O$	226.1358
$C_{11}H_{16}N_3O_2$	222.1244	$C_{15}H_{27}O$	223.2063	$C_{13}H_{11}N_3O$	225.0903	$C_{16}H_{20}N$	226.1597
$C_{11}H_{18}N_4O$	222.1482	$C_{15}H_{29}N$	223.2301	$C_{13}H_{13}N_4$	225.1142	$C_{16}H_{34}$	226.2662
$C_{11}N_3O_3$	221.9940	$C_{16}H_{15}O$	223.1123	$C_{13}H_{21}O_3$	225.1491	$C_{17}H_{22}$	226.1722
$C_{12}H_{14}O_4$	222.0892	$C_{16}H_{17}N$	223.1362	$C_{13}H_{23}NO_2$	225.1730	**227**	
$C_{12}H_{16}NO_3$	222.1131	$C_{16}H_{31}$	223.2427	$C_{13}H_{25}N_2O$	225.1968	$C_{10}H_{15}N_2O_4$	227.1032
$C_{12}H_{18}N_2O_2$	222.1369	$C_{17}H_{19}$	223.1488	$C_{13}H_{27}N_3$	225.2207	$C_{10}H_{17}N_3O_3$	227.1271
$C_{12}H_{20}N_3O$	222.1608	**224**		$C_{14}H_9O_3$	225.0552	$C_{10}H_{19}N_4O_2$	227.1509
$C_{12}H_{22}N_4$	222.1846	$C_{10}H_{12}N_2O_4$	224.0797	$C_{14}H_{11}NO_2$	225.0790	$C_{11}H_{17}NO_4$	227.1158
$C_{13}H_8N_3O$	222.0668	$C_{10}H_{14}N_3O_3$	224.1036	$C_{14}H_{13}N_2O$	225.1029	$C_{11}H_{21}N_3O_2$	227.1635
$C_{13}H_{10}N_4$	222.0907	$C_{10}H_{16}N_4O_2$	224.1275	$C_{14}H_{15}N_3$	225.1267	$C_{11}H_{23}N_4O$	227.1873
$C_{13}H_{18}O_3$	222.1256	$C_{11}H_{14}NO_4$	224.0923	$C_{14}H_{25}O_2$	225.1855	$C_{12}H_7N_2O_3$	227.0457
$C_{13}H_{20}NO_2$	222.1495	$C_{11}H_{16}N_2O_3$	224.1162	$C_{14}H_{27}NO$	225.2094	$C_{12}H_9N_3O_2$	227.0695
$C_{13}H_{22}N_2O$	222.1733	$C_{11}H_{18}N_3O_2$	224.1400	$C_{14}H_{29}N_2$	225.2332	$C_{12}H_{11}N_4O$	227.0934
$C_{13}H_{24}N_3$	222.1972	$C_{11}H_{20}N_4O$	224.1639	$C_{15}H_{13}O_2$	225.0916	$C_{12}H_{19}O_4$	227.1284
$C_{14}H_{10}N_2O$	222.0794	$C_{12}H_8N_4O$	224.0699	$C_{15}H_{15}NO$	225.1154	$C_{12}H_{21}NO_3$	227.1522
$C_{14}H_{12}N_3$	222.1032	$C_{12}H_{16}O_4$	224.1049	$C_{15}H_{17}N_2$	225.1393	$C_{12}H_{23}N_2O_2$	227.1761
$C_{14}H_{22}O_2$	222.1620	$C_{12}H_{18}NO_3$	224.1287	$C_{15}H_{29}O$	225.2219	$C_{12}H_{25}N_3O$	227.1999
$C_{14}H_{24}NO$	222.1859	$C_{12}H_{20}N_2O_2$	224.1526	$C_{15}H_{31}N$	225.2458	$C_{12}H_{27}N_4$	227.2238
$C_{14}H_{26}N_2$	222.2098	$C_{12}H_{22}N_3O$	224.1764	$C_{16}H_{17}O$	225.1280	$C_{13}H_9NO_3$	227.0583
$C_{15}H_{10}O_2$	222.0681	$C_{12}H_{24}N_4$	224.2003	$C_{16}H_{19}N$	225.1519	$C_{13}H_{11}N_2O_2$	227.0821
$C_{15}H_{12}NO$	222.0919	$C_{13}H_8N_2O_2$	224.0586	$C_{16}H_{33}$	225.2584	$C_{13}H_{13}N_3O$	227.1060
$C_{15}H_{14}N_2$	222.1158	$C_{13}H_{10}N_3O$	224.0825	$C_{17}H_{21}$	225.1644	$C_{13}H_{15}N_4$	227.1298
$C_{15}H_{26}O$	222.1985	$C_{13}H_{12}N_4$	224.1063	**226**		$C_{13}H_{25}NO_2$	227.1886
$C_{15}H_{28}N$	222.2223	$C_{13}H_{20}O_3$	224.1413	$C_{10}H_{14}N_2O_4$	226.0954	$C_{13}H_{27}N_2O$	227.2125
$C_{16}H_{14}O$	222.1045	$C_{13}H_{22}NO_2$	224.1651	$C_{10}H_{16}N_3O_3$	226.1193	$C_{13}H_{29}N_3$	227.2363
$C_{16}H_{16}N$	222.1284	$C_{13}H_{24}N_2O$	224.1890	$C_{10}H_{18}N_4O_2$	226.1431	$C_{14}H_{11}O_3$	227.0708
$C_{16}H_{30}$	222.2349	$C_{13}H_{26}N_3$	224.2129	$C_{11}H_{16}NO_4$	226.1080	$C_{14}H_{13}NO_2$	227.0947
$C_{16}NO$	221.9980	$C_{14}H_{10}NO_2$	224.0712	$C_{11}H_{18}N_2O_3$	226.1318	$C_{14}H_{15}N_2O$	227.1185
$C_{17}H_{18}$	222.1409	$C_{14}H_{12}N_2O$	224.0950	$C_{11}H_{20}N_3O_2$	226.1557	$C_{14}H_{17}N_3$	227.1424
223		$C_{14}H_{14}N_3$	224.1189	$C_{11}H_{22}N_4O$	226.1795	$C_{14}H_{27}O_2$	227.2012
$C_{10}H_{11}N_2O_4$	223.0719	$C_{14}H_{24}O_2$	224.1777	$C_{12}H_8N_3O_2$	226.0617	$C_{14}H_{29}NO$	227.2250
$C_{10}H_{13}N_3O_3$	223.0958	$C_{14}H_{26}NO$	224.2015	$C_{12}H_{10}N_4O$	226.0856	$C_{15}H_{15}O_2$	227.1072
$C_{10}H_{15}N_4O_2$	223.1196	$C_{14}H_{28}N_2$	224.2254	$C_{12}H_{18}O_4$	226.1205	$C_{15}H_{17}NO$	227.1311
$C_{11}H_{13}NO_4$	223.0845	$C_{15}H_{12}O_2$	224.0837	$C_{12}H_{20}NO_3$	226.1444	$C_{15}H_{19}N_2$	227.1549
$C_{11}H_{15}N_2O_3$	223.1083	$C_{15}H_{14}NO$	224.1076	$C_{12}H_{22}N_2O_2$	226.1682	$C_{15}H_{31}O$	227.2376
$C_{11}H_{17}N_3O_2$	223.1322	$C_{15}H_{16}N_2$	224.1315	$C_{12}H_{24}N_3O$	226.1929	$C_{15}H_{33}N$	227.2615
$C_{11}H_{19}N_4O$	223.1560	$C_{15}H_{28}O$	224.2141	$C_{12}H_{26}N_4$	226.2160	$C_{16}H_{19}O$	227.1436
$C_{12}H_7N_4O$	223.0621	$C_{15}H_{30}N$	224.2380	$C_{13}H_{10}N_2O_2$	226.0743	$C_{16}H_{21}N$	227.1675
$C_{12}H_{15}O_4$	223.0970	$C_{16}H_{16}O$	224.1202	$C_{13}H_{12}N_3O$	226.0981	$C_{17}H_{23}$	227.1801
$C_{12}H_{17}NO_3$	223.1209	$C_{16}H_{18}N$	224.1440	$C_{13}H_{14}N_4$	226.1220	**228**	
$C_{12}H_{19}N_2O_2$	223.1447	$C_{16}H_{32}$	224.2505	$C_{13}H_{22}O_3$	226.1569	$C_{10}H_{16}N_2O_2$	228.1111
$C_{12}H_{21}N_3O$	223.1686	$C_{17}H_{20}$	224.1566	$C_{13}H_{24}NO_2$	226.1808	$C_{10}H_{18}N_3O_3$	228.1349
$C_{12}H_{23}N_4$	223.1925	**225**		$C_{13}H_{26}N_2O$	226.2046	$C_{10}H_{20}N_4O_2$	228.1588
$C_{13}H_9N_3O$	223.0746	$C_{10}H_{13}N_2O_4$	225.0876	$C_{13}H_{28}N_3$	226.2285	$C_{11}H_8N_4O_2$	228.0648
$C_{13}H_{11}N_4$	223.0985	$C_{10}H_{15}N_3O_3$	225.1114	$C_{14}H_{10}O_3$	226.0630	$C_{11}H_{18}NO_4$	228.1236
$C_{13}H_{19}O_3$	223.1334	$C_{10}H_{17}N_4O_2$	225.1353	$C_{14}H_{12}NO_2$	226.0868	$C_{11}H_{20}N_2O_3$	228.1475
$C_{13}H_{21}NO_2$	223.1573	$C_{11}H_{15}NO_4$	225.1001	$C_{14}H_{14}N_2O$	226.1107	$C_{11}H_{22}N_3O_2$	228.1713
$C_{13}H_{23}N_2O$	223.1811	$C_{11}H_{17}N_2O_3$	225.1240	$C_{14}H_{16}N_3$	226.1346	$C_{11}H_{24}N_4O$	228.1952
$C_{13}H_{25}N_3$	223.2050	$C_{11}H_{19}N_3O_2$	225.1478	$C_{14}H_{26}O_2$	226.1934	$C_{12}H_8N_2O_3$	228.0535

APPENDIX A *(Continued)*

FM		FM		FM		FM	
$C_{12}H_{12}N_4O$	228.1012	$C_{14}H_{15}NO_2$	229.1103	$C_{10}H_{23}N_4O_2$	231.1822	$C_{13}H_{20}N_4$	232.1690
$C_{12}H_{20}O_4$	228.1362	$C_{14}H_{17}N_2O$	229.1342	$C_{11}H_7N_2O_4$	231.0406	$C_{13}H_{28}O_3$	232.2039
$C_{12}H_{22}NO_3$	228.1600	$C_{14}H_{19}N_3$	229.1580	$C_{11}H_9N_3O_3$	231.0644	$C_{14}H_{16}O_3$	232.1100
$C_{12}H_{24}N_2O_2$	228.1839	$C_{14}H_{29}O_2$	229.2168	$C_{11}H_{11}N_4O_2$	231.0883	$C_{14}H_{18}NO_2$	232.1338
$C_{12}H_{26}N_3O$	228.2077	$C_{14}H_{31}NO$	229.2407	$C_{11}H_{21}NO_4$	231.1471	$C_{14}H_{20}N_2O$	232.1577
$C_{12}H_{28}N_4$	228.2316	$C_{15}H_{17}O_2$	229.1229	$C_{11}H_{23}N_2O_3$	231.1710	$C_{14}H_{22}N_3$	232.1815
$C_{13}H_8O_4$	228.0422	$C_{15}H_{19}NO$	229.1467	$C_{11}H_{25}N_3O_2$	231.1948	$C_{15}H_{10}N_3$	232.0876
$C_{13}H_{10}NO_3$	228.0661	$C_{15}H_{21}N_2$	229.1706	$C_{11}H_{27}N_4O$	231.2187	$C_{15}H_{20}O_2$	232.1464
$C_{13}H_{12}N_2O_2$	228.0899	$C_{16}H_{21}O$	229.1593	$C_{12}H_9NO_4$	231.0532	$C_{15}H_{22}NO$	232.1702
$C_{13}H_{14}N_3O$	228.1138	$C_{16}H_{23}N$	229.1832	$C_{12}H_{11}N_2O_3$	231.0770	$C_{15}H_{24}N_2$	232.1941
$C_{13}H_{24}O_3$	228.1726	$C_{17}H_9O$	229.0653	$C_{12}H_{13}N_3O_2$	231.1009	$C_{16}H_{10}NO$	232.0768
$C_{13}H_{26}NO_2$	228.1965	$C_{17}H_{11}N$	229.0892	$C_{12}H_{15}N_4O$	231.1247	$C_{16}H_{12}N_2$	232.1001
$C_{13}H_{28}N_2O$	228.2203	$C_{18}H_{13}$	229.1018	$C_{12}H_{23}O_4$	231.1597	$C_{16}H_{24}O$	232.1828
$C_{13}H_{30}N_3$	228.2442	**230**		$C_{12}H_{25}NO_3$	231.1835	$C_{16}H_{26}N$	232.2067
$C_{14}H_{12}O_3$	228.0786	$C_{10}H_{18}N_2O_4$	230.1267	$C_{12}H_{27}N_2O_2$	231.2074	$C_{17}H_{12}O$	232.0888
$C_{14}H_{14}NO_2$	228.1025	$C_{10}H_{20}N_3O_3$	230.1506	$C_{12}H_{29}N_3O$	231.2312	$C_{17}H_{14}N$	232.1127
$C_{14}H_{16}N_2O$	228.1264	$C_{10}H_{22}N_4O_2$	230.1744	$C_{13}H_{11}O_4$	231.0657	$C_{17}H_{28}$	232.2192
$C_{14}H_{18}N_3$	228.1502	$C_{11}H_8N_3O_3$	230.0566	$C_{13}H_{13}NO_3$	231.0896	$C_{18}H_{16}$	232.1253
$C_{14}H_{28}O_2$	228.2090	$C_{11}H_{10}N_4O_2$	230.0805	$C_{13}H_{15}N_2O_2$	231.1134	**233**	
$C_{14}H_{30}NO$	228.2329	$C_{11}H_{20}NO_4$	230.1393	$C_{13}H_{17}N_3O$	231.1373	$C_{10}H_{23}N_3O_3$	233.1741
$C_{14}H_{32}N_2$	228.2567	$C_{11}H_{22}N_2O_3$	230.1631	$C_{13}H_{19}N_4$	231.1611	$C_{10}H_{25}N_4O_2$	233.1979
$C_{15}H_{16}O_2$	228.1151	$C_{11}H_{24}N_3O_2$	230.1870	$C_{14}H_{15}O_3$	231.1021	$C_{11}H_9N_2O_4$	233.0563
$C_{15}H_{18}NO$	228.1389	$C_{11}H_{26}N_4O$	230.2108	$C_{14}H_{17}NO_2$	231.1260	$C_{11}H_{11}N_3O_3$	233.0801
$C_{15}H_{20}N_2$	228.1628	$C_{12}H_8NO_4$	230.0453	$C_{14}H_{19}N_2O$	231.1498	$C_{11}H_{23}NO_4$	233.1628
$C_{15}H_{32}O$	228.2454	$C_{12}H_{10}N_2O_3$	230.0692	$C_{14}H_{21}N_3$	231.1737	$C_{11}H_{25}N_2O_3$	233.1866
$C_{16}H_{20}O$	228.1515	$C_{12}H_{12}N_3O_2$	230.0930	$C_{15}H_9N_3$	231.0798	$C_{11}H_{27}N_3O_2$	233.2105
$C_{16}H_{22}N$	228.1753	$C_{12}H_{14}N_4O$	230.1169	$C_{15}H_{19}O_2$	231.1385	$C_{12}H_{11}NO_4$	233.0688
$C_{17}H_{10}N$	228.0814	$C_{12}H_{22}O_4$	230.1518	$C_{15}H_{21}NO$	231.1624	$C_{12}H_{13}N_2O_3$	233.0927
$C_{17}H_{24}$	228.1879	$C_{12}H_{24}NO_3$	230.1757	$C_{15}H_{23}N_2$	231.1863	$C_{12}H_{15}N_3O_2$	233.1165
$C_{18}H_{12}$	228.0939	$C_{12}H_{26}N_2O_2$	230.1996	$C_{16}H_9NO$	231.0684	$C_{12}H_{17}N_4O$	233.1404
229		$C_{12}H_{28}N_3O$	230.2234	$C_{16}H_{11}N_2$	231.0923	$C_{12}H_{25}O_4$	233.1753
$C_{10}H_{17}N_2O_4$	229.1189	$C_{12}H_{30}N_4$	230.2473	$C_{16}H_{23}O$	231.1750	$C_{12}H_{27}NO_3$	233.1992
$C_{10}H_{19}N_3O_3$	229.1427	$C_{13}H_{10}O_4$	230.0579	$C_{17}H_{11}O$	231.0810	$C_{13}H_{13}O_4$	233.0814
$C_{10}H_{21}N_4O_2$	229.1666	$C_{13}H_{12}NO_3$	230.0817	$C_{17}H_{13}N$	231.1049	$C_{13}H_{15}NO_3$	233.1052
$C_{11}H_7N_3O_3$	229.0488	$C_{13}H_{14}N_2O_2$	230.1056	$C_{17}H_{27}$	231.2114	$C_{13}H_{17}N_2O_2$	233.1291
$C_{11}H_9N_4O_2$	229.0726	$C_{13}H_{16}N_3O$	230.1295	$C_{18}H_{15}$	231.1174	$C_{13}H_{19}N_3O$	233.1529
$C_{11}H_{19}NO_4$	229.1315	$C_{13}H_{18}N_4$	230.1533	**232**		$C_{13}H_{21}N_4$	233.1768
$C_{11}H_{21}N_2O_3$	229.1553	$C_{13}H_{26}O_3$	230.1883	$C_{10}H_{20}N_2O_4$	232.1424	$C_{14}H_9N_4$	233.0829
$C_{11}H_{23}N_3O_2$	229.1791	$C_{13}H_{28}NO_2$	230.2121	$C_{10}H_{22}N_3O_3$	232.1662	$C_{14}H_{17}O_3$	233.1178
$C_{11}H_{25}N_4O$	229.2030	$C_{13}H_{30}N_2O$	230.2360	$C_{10}H_{24}N_4O_2$	232.1901	$C_{14}H_{19}NO_2$	233.1416
$C_{12}H_9N_2O_3$	229.0614	$C_{14}H_{14}O_3$	230.0943	$C_{11}H_8N_2O_4$	232.0484	$C_{14}H_{21}N_2O$	233.1655
$C_{12}H_{11}N_3O_2$	229.0852	$C_{14}H_{16}NO_2$	230.1182	$C_{11}H_{10}N_3O_3$	232.0723	$C_{15}H_9N_2O$	233.0715
$C_{12}H_{13}N_4O$	229.1091	$C_{14}H_{18}N_2O$	230.1420	$C_{11}H_{12}N_4O_2$	232.0961	$C_{15}H_{11}N_3$	233.0954
$C_{12}H_{21}O_4$	229.1440	$C_{14}H_{20}N_3$	230.1659	$C_{11}H_{22}NO_4$	232.1549	$C_{15}H_{21}O_2$	233.1542
$C_{12}H_{23}NO_3$	229.1679	$C_{14}H_{30}O_2$	230.2247	$C_{11}H_{24}N_2O_3$	232.1788	$C_{15}H_{23}NO$	233.1781
$C_{12}H_{25}N_2O_2$	229.1917	$C_{15}H_{18}O_2$	230.1307	$C_{11}H_{26}N_3O_2$	232.2026	$C_{15}H_{25}N_2$	233.2019
$C_{12}H_{27}N_3O$	229.2156	$C_{15}H_{20}NO$	230.1546	$C_{11}H_{28}N_4O$	232.2265	$C_{16}H_9O_2$	233.0603
$C_{12}H_{29}N_4$	229.2394	$C_{15}H_{22}N_2$	230.1784	$C_{12}H_{10}NO_4$	232.0610	$C_{16}H_{11}NO$	233.0841
$C_{13}H_9O_4$	229.0501	$C_{16}H_{10}N_2$	230.0845	$C_{12}H_{12}N_2O_3$	232.0848	$C_{16}H_{13}N_2$	233.1080
$C_{13}H_{11}NO_3$	229.0739	$C_{16}H_{22}O$	230.1671	$C_{12}H_{14}N_3O_2$	232.1087	$C_{16}H_{25}O$	233.1906
$C_{13}H_{13}N_2O_2$	229.0978	$C_{16}H_{24}N$	230.1910	$C_{12}H_{16}N_4O$	232.1325	$C_{16}H_{27}N$	233.2145
$C_{13}H_{15}N_3O$	229.1216	$C_{17}H_{10}O$	230.0732	$C_{12}H_{24}O_4$	232.1675	$C_{17}H_{13}O$	233.0967
$C_{13}H_{17}N_4$	229.1455	$C_{17}H_{12}N$	230.0970	$C_{12}H_{26}NO_3$	232.1914	$C_{17}H_{15}N$	233.1205
$C_{13}H_{25}O_3$	229.1804	$C_{17}H_{26}$	230.2036	$C_{12}H_{28}N_2O_2$	232.2152	$C_{17}H_{29}$	233.2270
$C_{13}H_{27}NO_2$	229.2043	$C_{18}H_{14}$	230.1096	$C_{13}H_{12}O_4$	232.0735	$C_{18}H_{17}$	233.1331
$C_{13}H_{29}N_2O$	229.2281	**231**		$C_{13}H_{14}NO_3$	232.0974	**234**	
$C_{13}H_{31}N_3$	229.2520	$C_{10}H_{19}N_2O_4$	231.1345	$C_{13}H_{16}N_2O_2$	232.1213	$C_{10}H_{22}N_2O_4$	234.1580
$C_{14}H_{13}O_3$	229.0865	$C_{10}H_{21}N_3O_3$	231.1584	$C_{13}H_{18}N_3O$	232.1451	$C_{10}H_{24}N_3O_3$	234.1819

APPENDIX A *(Continued)*

FM		FM		FM		FM	
$C_{10}H_{26}N_4O_2$	234.2057	$C_{15}H_{13}N_3$	235.1111	$C_{12}H_{21}N_4O$	237.1717	$C_{15}H_{30}N_2$	238.2411
$C_{11}H_{10}N_2O_4$	234.0641	$C_{15}H_{23}O_2$	235.1699	$C_{13}H_9N_4O$	237.0777	$C_{16}H_{14}O_2$	238.0994
$C_{11}H_{12}N_3O_3$	234.0879	$C_{15}H_{25}NO$	235.1937	$C_{13}H_{17}O_4$	237.1127	$C_{16}H_{16}NO$	238.1233
$C_{11}H_{14}N_4O_2$	234.1118	$C_{15}H_{27}N_2$	235.2176	$C_{13}H_{19}NO_3$	237.1365	$C_{16}H_{18}N_2$	238.1471
$C_{11}H_{24}NO_4$	234.1706	$C_{16}H_{11}O_2$	235.0759	$C_{13}H_{21}N_2O_2$	237.1604	$C_{16}H_{30}O$	238.2298
$C_{11}H_{26}N_2O_3$	234.1945	$C_{16}H_{13}NO$	235.0998	$C_{13}H_{23}N_3O$	237.1842	$C_{16}H_{32}N$	238.2536
$C_{12}H_{12}NO_4$	234.0766	$C_{16}H_{15}N_2$	235.1236	$C_{13}H_{25}N$	237.2081	$C_{17}H_{18}O$	238.1358
$C_{12}H_{14}N_2O_3$	234.1005	$C_{16}H_{27}O$	235.2063	$C_{14}H_9N_2O_2$	237.0664	$C_{17}H_{20}N$	238.1597
$C_{12}H_{16}N_3O_2$	234.1244	$C_{16}H_{29}N$	235.2301	$C_{14}H_{11}N_3O$	237.0903	$C_{17}H_{34}$	238.2662
$C_{12}H_{18}N_4O$	234.1482	$C_{17}H_{15}O$	235.1123	$C_{14}H_{13}N_4$	237.1142	$C_{18}H_{22}$	238.1722
$C_{12}H_{26}O_4$	234.1832	$C_{17}H_{17}N$	235.1362	$C_{14}H_{21}O_3$	237.1491	**239**	
$C_{13}H_{14}O_4$	234.0892	$C_{17}H_{31}$	235.2427	$C_{14}H_{23}NO_2$	237.1730	$C_{11}H_{15}N_2O_4$	239.1032
$C_{13}H_{16}NO_3$	234.1131	$C_{18}H_{19}$	235.1488	$C_{14}H_{25}N_2O$	237.1968	$C_{11}H_{17}N_3O_3$	239.1271
$C_{13}H_{18}N_2O_2$	234.1369	**236**		$C_{14}H_{27}N_3$	237.2207	$C_{11}H_{19}N_4O_2$	239.1509
$C_{13}H_{20}N_3O$	234.1608	$C_{10}H_{24}N_2O_4$	236.1737	$C_{15}H_9O_3$	237.0552	$C_{12}H_{17}NO_4$	239.1158
$C_{13}H_{22}N_4$	234.1846	$C_{11}H_{12}N_2O_4$	236.0797	$C_{15}H_{11}NO_2$	237.0790	$C_{12}H_{19}N_2O_3$	239.1396
$C_{14}H_{10}N_4$	234.0907	$C_{11}H_{14}N_3O_3$	236.1036	$C_{15}H_{13}N_2O$	237.1029	$C_{12}H_{21}N_3O_2$	239.1635
$C_{14}H_{18}O_3$	234.1256	$C_{11}H_{16}N_4O_2$	236.1275	$C_{15}H_{15}N_3$	237.1267	$C_{12}H_{23}N_4O$	239.1873
$C_{14}H_{20}NO_2$	234.1495	$C_{12}H_2N_3O_3$	236.0096	$C_{15}H_{25}O_2$	237.1855	$C_{13}H_9N_3O_2$	239.0695
$C_{14}H_{22}N_2O$	234.1733	$C_{12}H_4N_4O_2$	236.0335	$C_{15}H_{27}NO$	237.2094	$C_{13}H_{11}N_4O$	239.0934
$C_{14}H_{24}N_3$	234.1972	$C_{12}H_{14}NO_4$	236.0923	$C_{15}H_{29}N_2$	237.2332	$C_{13}H_{19}O_4$	239.1284
$C_{15}H_{10}N_2O$	234.0794	$C_{12}H_{16}N_2O_3$	236.1162	$C_{16}H_{13}O_2$	237.0916	$C_{13}H_{21}NO_3$	239.1522
$C_{15}H_{12}N_3$	234.1032	$C_{12}H_{18}N_3O_2$	236.1400	$C_{16}H_{15}NO$	237.1154	$C_{13}H_{23}N_2O_2$	239.1761
$C_{15}H_{22}O_2$	234.1620	$C_{12}H_{20}N_4O$	236.1639	$C_{16}H_{17}N_2$	237.1393	$C_{13}H_{25}N_3O$	239.1999
$C_{15}H_{24}NO$	234.1859	$C_{13}H_8N_4O$	236.0699	$C_{16}H_{29}O$	237.2219	$C_{13}H_{27}N_4$	239.2238
$C_{15}H_{26}N_2$	234.2098	$C_{13}H_{16}O_4$	236.1049	$C_{16}H_{31}N$	237.2458	$C_{14}H_9NO_3$	239.0583
$C_{16}H_{10}O_2$	234.0681	$C_{13}H_{18}NO_3$	236.1287	$C_{17}H_{17}O$	237.1280	$C_{14}H_{11}N_2O_2$	239.0821
$C_{16}H_{12}NO$	234.0919	$C_{13}H_{20}N_2O_2$	236.1526	$C_{17}H_{19}N$	237.1519	$C_{14}H_{13}N_3O$	239.1060
$C_{16}H_{14}N_2$	234.1158	$C_{13}H_{22}N_3O$	236.1764	$C_{17}H_{33}$	237.2584	$C_{14}H_{15}N_4$	239.1298
$C_{16}H_{26}O$	234.1985	$C_{13}H_{24}N_4$	236.2003	$C_{18}H_{21}$	237.1644	$C_{14}H_{23}O_3$	239.1648
$C_{16}H_{28}N$	234.2223	$C_{14}H_{10}N_3O$	236.0825	**238**		$C_{14}H_{25}NO_2$	239.1886
$C_{17}H_{16}N$	234.1284	$C_{14}H_{12}N_4$	236.1063	$C_{11}H_{14}N_2O_4$	238.0954	$C_{14}H_{27}N_2O$	239.2125
$C_{17}H_{30}$	234.2349	$C_{14}H_{20}O_3$	236.1413	$C_{11}H_{16}N_3O_3$	238.1193	$C_{14}H_{29}N_3$	239.2363
$C_{18}H_{18}$	234.1409	$C_{14}H_{22}NO_2$	236.1651	$C_{11}H_{18}N_4O_2$	238.1431	$C_{15}H_{11}O_3$	239.0708
235		$C_{14}H_{24}N_2O$	236.1890	$C_{12}H_{16}NO_4$	238.1080	$C_{15}H_{13}NO_2$	239.0947
$C_{10}H_{23}N_2O_4$	235.1659	$C_{14}H_{26}N_3$	236.2129	$C_{12}H_{18}N_2O_3$	238.1318	$C_{15}H_{15}N_2O$	239.1185
$C_{10}H_{25}N_3O_3$	235.1897	$C_{15}H_{10}NO_2$	236.0712	$C_{12}H_{20}N_3O_2$	238.1557	$C_{15}H_{17}N_3$	239.1424
$C_{11}H_{11}N_2O_4$	235.0719	$C_{15}H_{12}N_2O$	236.0950	$C_{12}H_{22}N_4O$	238.1795	$C_{15}H_{27}O_2$	239.2012
$C_{11}H_{13}N_3O_3$	235.0958	$C_{15}H_{14}N_3$	236.1189	$C_{13}H_8N_3O_2$	238.0617	$C_{15}H_{29}NO$	239.2250
$C_{11}H_{15}N_4O_2$	235.1196	$C_{15}H_{24}O_2$	236.1777	$C_{13}H_{10}N_4O$	238.0856	$C_{15}H_{31}N_2$	239.2489
$C_{11}H_{25}NO_4$	235.1784	$C_{15}H_{26}NO$	236.2015	$C_{13}H_{18}O_4$	238.1205	$C_{16}H_{15}O_2$	239.1072
$C_{12}H_{13}NO_4$	235.0845	$C_{15}H_{28}N_2$	236.2254	$C_{13}H_{20}NO_3$	238.1444	$C_{16}H_{17}NO$	239.1311
$C_{12}H_{15}N_2O_3$	235.1083	$C_{16}H_{12}O_2$	236.0837	$C_{13}H_{22}N_2O_2$	238.1682	$C_{16}H_{19}N_2$	239.1549
$C_{12}H_{17}N_3O_2$	235.1322	$C_{16}H_{14}NO$	236.1076	$C_{13}H_{24}N_3O$	238.1921	$C_{16}H_{31}O$	239.2376
$C_{12}H_{19}N_4O$	235.1560	$C_{16}H_{16}N_2$	236.1315	$C_{13}H_{26}N_4$	238.2160	$C_{16}H_{33}N$	239.2615
$C_{13}H_{15}O_4$	235.0970	$C_{16}H_{28}O$	236.2141	$C_{14}H_{10}N_2O_2$	238.0743	$C_{17}H_{19}O$	239.1436
$C_{13}H_{17}NO_3$	235.1209	$C_{16}H_{30}N$	236.2380	$C_{14}H_{12}N_3O$	238.0981	$C_{17}H_{21}N$	239.1675
$C_{13}H_{19}N_2O_2$	235.1447	$C_{17}H_{16}O$	236.1202	$C_{14}H_{14}N_4$	238.1220	$C_{17}H_{35}$	239.2740
$C_{13}H_{21}N_3O$	235.1686	$C_{17}H_{18}N$	236.1440	$C_{14}H_{22}O_3$	238.1569	$C_{18}H_{23}$	239.1801
$C_{13}H_{23}N_4$	235.1925	$C_{17}H_{32}$	236.2505	$C_{14}H_{24}NO_2$	238.1808	**240**	
$C_{14}H_9N_3O$	235.0746	$C_{18}H_{20}$	236.1566	$C_{14}H_{26}N_2O$	238.2046	$C_{11}H_{16}N_2O_4$	240.1111
$C_{14}H_{11}N_4$	235.0985	**237**		$C_{14}H_{28}N_3$	238.2285	$C_{11}H_{18}N_3O_3$	240.1349
$C_{14}H_{19}O_3$	235.1334	$C_{11}H_{13}N_2O_4$	237.0876	$C_{15}H_{10}O_3$	238.0630	$C_{11}H_{20}N_4O_2$	240.1588
$C_{14}H_{21}NO_2$	235.1573	$C_{11}H_{15}N_3O_3$	237.1114	$C_{15}H_{12}NO_2$	238.0868	$C_{12}H_8N_4O_2$	240.0648
$C_{14}H_{23}N_2O$	235.1811	$C_{11}H_{17}N_4O_2$	237.1353	$C_{15}H_{14}N_2O$	238.1107	$C_{12}H_{18}NO_4$	240.1236
$C_{14}H_{25}N_3$	235.2050	$C_{12}H_{15}NO_4$	237.1001	$C_{15}H_{16}N_3$	238.1346	$C_{12}H_{20}N_2O_3$	240.1475
$C_{15}H_9NO_2$	235.0634	$C_{12}H_{17}N_2O_3$	237.1240	$C_{15}H_{26}O_2$	238.1934	$C_{12}H_{22}N_3O_2$	240.1713
$C_{15}H_{11}N_2O$	235.0872	$C_{12}H_{19}N_3O_2$	237.1478	$C_{15}H_{28}NO$	238.2172	$C_{12}H_{24}N_4O$	240.1952

APPENDIX A *(Continued)*

FM		FM		FM		FM	
$C_{13}H_8N_2O_3$	240.0535	$C_{15}H_{17}N_2O$	241.1342	$C_{17}H_{24}N$	242.1910	$C_{12}H_{24}N_2O_3$	244.1788
$C_{13}H_{10}N_3O_2$	240.0774	$C_{15}H_{19}N_3$	241.1580	$C_{18}H_{10}O$	242.0732	$C_{12}H_{26}N_3O_2$	244.2026
$C_{13}H_{12}N_4O$	240.1012	$C_{15}H_{29}O_2$	241.2168	$C_{18}H_{12}N$	242.0970	$C_{12}H_{28}N_4O$	244.2265
$C_{13}H_{20}O_4$	240.1362	$C_{15}H_{31}NO$	241.2407	$C_{18}H_{26}$	242.2036	$C_{13}H_{10}NO_4$	244.0610
$C_{13}H_{22}NO_3$	240.1600	$C_{15}H_{33}N_2$	241.2646	$C_{19}H_{14}$	242.1096	$C_{13}H_{12}N_2O_3$	244.0848
$C_{13}H_{24}N_2O_2$	240.1839	$C_{16}H_{17}O_2$	241.1229	**243**		$C_{13}H_{14}N_3O_2$	244.1087
$C_{13}H_{28}N_4$	240.2316	$C_{16}H_{19}NO$	241.1467	$C_{11}H_{19}N_2O_4$	243.1345	$C_{13}H_{16}N_4O$	244.1325
$C_{14}H_8O_4$	240.0422	$C_{16}H_{21}N_2$	241.1706	$C_{11}H_{21}N_3O_3$	243.1584	$C_{13}H_{24}O_4$	244.1675
$C_{14}H_{10}NO_3$	240.0661	$C_{16}H_{33}O$	241.2533	$C_{11}H_{23}N_4O_2$	243.1822	$C_{13}H_{26}NO_3$	244.1914
$C_{14}H_{12}N_2O_2$	240.0899	$C_{16}H_{35}N$	241.2771	$C_{12}H_7N_2O_4$	243.0406	$C_{13}H_{28}N_2O_2$	244.2152
$C_{14}H_{14}N_3O$	240.1138	$C_{17}H_{21}O$	241.1593	$C_{12}H_9N_3O_3$	243.0644	$C_{13}H_{30}N_3O$	244.2391
$C_{14}H_{16}N_4$	240.1377	$C_{17}H_{23}N$	241.1832	$C_{12}H_{11}N_4O_2$	243.0883	$C_{13}H_{32}N_4$	244.2629
$C_{14}H_{24}O_3$	240.1726	$C_{18}H_{25}$	241.1957	$C_{12}H_{21}NO_4$	243.1471	$C_{14}H_{12}O_4$	244.0735
$C_{14}H_{26}NO_2$	240.1965	**242**		$C_{12}H_{23}N_2O_3$	243.1710	$C_{14}H_{14}NO_3$	244.0974
$C_{14}H_{28}N_2O$	240.2203	$C_{11}H_{18}N_2O_4$	242.1267	$C_{12}H_{25}N_3O_2$	243.1948	$C_{14}H_{16}N_2O_2$	244.1213
$C_{14}H_{30}N_3$	240.2442	$C_{11}H_{20}N_3O_3$	242.1506	$C_{12}H_{27}N_4O$	243.2187	$C_{14}H_{18}N_3O$	244.1451
$C_{15}H_{12}O_3$	240.0786	$C_{11}H_{22}N_4O_2$	242.1744	$C_{13}H_9NO_4$	243.0532	$C_{14}H_{20}N_4$	244.1690
$C_{15}H_{14}NO_2$	240.1025	$C_{12}H_8N_3O_3$	242.0566	$C_{13}H_{11}N_2O_3$	243.0770	$C_{14}H_{28}O_3$	244.2039
$C_{15}H_{16}N_2O$	240.1264	$C_{12}H_{10}N_4O_2$	242.0805	$C_{13}H_{13}N_3O_2$	243.1009	$C_{14}H_{30}NO_2$	244.2278
$C_{15}H_{18}N_3$	240.1502	$C_{12}H_{20}NO_4$	242.1393	$C_{13}H_{15}N_4O$	243.1247	$C_{14}H_{32}N_2O$	244.2516
$C_{15}H_{28}O_2$	240.2090	$C_{12}H_{22}N_2O_3$	242.1631	$C_{13}H_{23}O_4$	243.1597	$C_{15}H_{16}O_3$	244.1100
$C_{15}H_{30}NO$	240.2329	$C_{12}H_{24}N_3O_2$	242.1870	$C_{13}H_{25}NO_3$	243.1835	$C_{15}H_{18}NO_2$	244.1338
$C_{15}H_{32}N_2$	240.2567	$C_{12}H_{26}N_4O$	242.2108	$C_{13}H_{27}N_2O_2$	243.2074	$C_{15}H_{20}N_2O$	244.1577
$C_{16}H_{16}O_2$	240.1151	$C_{13}H_8NO_4$	242.0453	$C_{13}H_{29}N_3O$	243.2312	$C_{15}H_{22}N_3$	244.1815
$C_{16}H_{20}N_2$	240.1628	$C_{13}H_{10}N_2O_3$	242.0692	$C_{13}H_{31}N_4$	243.2551	$C_{15}H_{32}O_2$	244.2403
$C_{16}H_{18}NO$	240.1389	$C_{13}H_{12}N_3O_2$	242.0930	$C_{14}H_{11}O_4$	243.0657	$C_{16}H_{10}N_3$	244.0876
$C_{16}H_{32}O$	240.2454	$C_{13}H_{14}N_4O$	242.1169	$C_{14}H_{13}NO_3$	243.0896	$C_{16}H_{20}O_2$	244.1464
$C_{16}H_{34}N$	240.2693	$C_{13}H_{22}O_4$	242.1518	$C_{14}H_{15}N_2O_2$	243.1134	$C_{16}H_{22}NO$	244.1702
$C_{17}H_{20}O$	240.1515	$C_{13}H_{24}NO_3$	242.1757	$C_{14}H_{17}N_3O$	243.1373	$C_{16}H_{24}N_2$	244.1941
$C_{17}H_{22}N$	240.1753	$C_{13}H_{26}N_2O_2$	242.1996	$C_{14}H_{19}N_4$	243.1611	$C_{17}H_{10}NO$	244.0763
$C_{17}H_{36}$	240.2819	$C_{13}H_{28}N_3O$	242.2234	$C_{14}H_{27}O_3$	243.1961	$C_{17}H_{12}N_2$	244.1001
$C_{18}H_{24}$	240.1879	$C_{13}H_{30}N_4$	242.2473	$C_{14}H_{29}NO_2$	243.2199	$C_{17}H_{24}O$	244.1828
241		$C_{14}H_{10}O_4$	242.0579	$C_{14}H_{31}N_2O$	243.2438	$C_{17}H_{26}N$	244.2067
$C_{11}H_{17}N_2O_4$	241.1189	$C_{14}H_{12}NO_3$	242.0817	$C_{14}H_{33}N_3$	243.2677	$C_{18}H_{12}O$	244.0888
$C_{11}H_{19}N_3O_3$	241.1427	$C_{14}H_{14}N_2O_2$	242.1056	$C_{15}H_{15}O_3$	243.1021	$C_{18}H_{14}N$	244.1127
$C_{11}H_{21}N_4O_2$	241.1666	$C_{14}H_{16}N_3O$	242.1295	$C_{15}H_{17}NO_2$	243.1260	$C_{18}H_{28}$	244.2192
$C_{12}H_{19}NO_4$	241.1315	$C_{14}H_{18}N_4$	242.1533	$C_{15}H_{19}N_2O$	243.1498	$C_{19}H_{16}$	244.1253
$C_{12}H_{21}N_2O_3$	241.1553	$C_{14}H_{26}O_3$	242.1883	$C_{15}H_{21}N_3$	243.1737	**245**	
$C_{12}H_{23}N_3O_2$	241.1791	$C_{14}H_{28}NO_2$	242.2121	$C_{15}H_{31}O_2$	243.2325	$C_{11}H_{21}N_2O_4$	245.1502
$C_{12}H_{25}N_4O$	241.2030	$C_{14}H_{30}N_2O$	242.2360	$C_{15}H_{33}NO$	243.2564	$C_{11}H_{23}N_3O_3$	245.1741
$C_{13}H_{11}N_3O_2$	241.0852	$C_{14}H_{32}N_3$	242.2598	$C_{16}H_{19}O_2$	243.1385	$C_{11}H_{25}N_4O_2$	245.1979
$C_{13}H_{13}N_4O$	241.1091	$C_{15}H_{14}O_3$	242.0943	$C_{16}H_{21}NO$	243.1624	$C_{12}H_9N_2O_4$	245.0563
$C_{13}H_{21}O_4$	241.1440	$C_{15}H_{16}NO_2$	242.1182	$C_{16}H_{23}N_2$	243.1863	$C_{12}H_{11}N_3O_3$	245.0801
$C_{13}H_{25}N_2O_2$	241.1679	$C_{15}H_{18}N_2O$	242.1420	$C_{17}H_{23}O$	243.1750	$C_{12}H_{13}N_4O_2$	245.1040
$C_{13}H_{25}N_2O_2$	241.1917	$C_{15}H_{20}N_3$	242.1659	$C_{17}H_{25}N$	243.1988	$C_{12}H_{23}NO_4$	245.1628
$C_{13}H_{27}N_3O$	241.2156	$C_{15}H_{30}O_2$	242.2247	$C_{18}H_{11}O$	243.0810	$C_{12}H_{25}N_2O_3$	245.1866
$C_{13}H_{29}N_4$	241.2394	$C_{15}H_{32}NO$	242.2485	$C_{18}H_{13}N$	243.1049	$C_{12}H_{27}N_3O_2$	245.2105
$C_{14}H_{11}NO_3$	241.0739	$C_{15}H_{34}N_2$	242.2724	$C_{18}H_{27}$	243.2114	$C_{12}H_{29}N_4O$	245.2343
$C_{14}H_{13}N_2O_2$	241.0978	$C_{16}H_{18}O_2$	242.1307	$C_{19}H_{15}$	243.1174	$C_{13}H_{11}NO_4$	245.0688
$C_{14}H_{15}N_3O$	241.1216	$C_{16}H_{20}NO$	242.1546	**244**		$C_{13}H_{13}N_2O_3$	245.0927
$C_{14}H_{17}N_4$	241.1445	$C_{16}H_{22}N_2$	242.1784	$C_{11}H_{20}N_2O_4$	244.1424	$C_{13}H_{15}N_3O_2$	245.1165
$C_{14}H_{25}O_3$	241.1804	$C_{16}H_{34}O$	242.2611	$C_{11}H_{22}N_3O_3$	244.1662	$C_{13}H_{17}N_4O$	245.1404
$C_{14}H_{27}NO_2$	241.2043	$C_{16}H_{18}O_2$	242.1307	$C_{11}H_{24}N_4O_2$	244.1901	$C_{13}H_{25}O_4$	245.1753
$C_{14}H_{29}N_2O$	241.2281	$C_{16}H_{20}NO$	242.1546	$C_{12}H_8N_2O_4$	244.0484	$C_{13}H_{27}NO_3$	245.1992
$C_{14}H_{31}N_3$	241.2520	$C_{16}H_{22}N_2$	242.1784	$C_{12}H_{10}N_3O_3$	244.0723	$C_{13}H_{29}N_2O_2$	245.2230
$C_{15}H_{13}O_3$	241.0865	$C_{16}H_{34}O$	242.2611	$C_{12}H_{12}N_4O_2$	244.0961	$C_{13}H_{31}N_3O$	245.2469
$C_{15}H_{15}NO_2$	241.1103	$C_{17}H_{22}O$	242.1871	$C_{12}H_{22}NO_4$	244.1549	$C_{14}H_{13}O_4$	245.0814

APPENDIX A *(Continued)*

FM		FM		FM		FM	
$C_{14}H_{15}NO_3$	245.1052	$C_{16}H_{26}N_2$	246.2098	$C_{12}H_{14}N_3O_3$	248.1036	$C_{15}H_{25}N_2O$	249.1968
$C_{14}H_{17}N_2O_2$	245.1291	$C_{17}H_{10}O_2$	246.0681	$C_{12}H_{16}N_4O_2$	248.1275	$C_{15}H_{27}N_3$	249.2207
$C_{14}H_{19}N_3O$	245.1529	$C_{17}H_{12}NO$	246.0919	$C_{12}H_{26}NO_4$	248.1863	$C_{16}H_{11}NO_2$	249.0790
$C_{14}H_{21}N_4$	245.1768	$C_{17}H_{14}N_2$	246.1158	$C_{12}H_{28}N_2O_3$	248.2101	$C_{16}H_{13}N_2O$	249.1029
$C_{14}H_{29}O_3$	245.2117	$C_{17}H_{26}O$	246.1985	$C_{13}H_{14}NO_4$	248.0923	$C_{16}H_{15}N_3$	249.1267
$C_{14}H_{31}NO_2$	245.2356	$C_{17}H_{28}N$	246.2223	$C_{13}H_{16}N_2O_3$	248.1162	$C_{16}H_{25}O_2$	249.1855
$C_{15}H_{17}O_3$	245.1178	$C_{18}H_{14}O$	246.1045	$C_{13}H_{18}N_3O_2$	248.1400	$C_{16}H_{27}NO$	249.2094
$C_{15}H_{19}NO_2$	245.1416	$C_{18}H_{16}N$	246.1284	$C_{13}H_{20}N_4O$	248.1639	$C_{16}H_{29}N_2$	249.2332
$C_{15}H_{21}N_2O$	245.1655	$C_{18}H_{30}$	246.2349	$C_{13}H_{28}O_4$	248.1988	$C_{17}H_{13}O_2$	249.0916
$C_{15}H_{23}N_3$	245.1894	$C_{19}H_{18}$	246.1409	$C_{14}H_{16}O_4$	248.1049	$C_{17}H_{15}NO$	249.1154
$C_{16}H_9N_2O$	245.0715	**247**		$C_{14}H_{20}N_2O_2$	248.1526	$C_{17}H_{17}N_2$	249.1393
$C_{16}H_{11}N_3$	245.0954	$C_{11}H_{23}N_2O_4$	247.1659	$C_{14}H_{22}N_3O$	248.1764	$C_{17}H_{29}O$	249.2219
$C_{16}H_{21}O_2$	245.1542	$C_{11}H_{25}N_3O_3$	247.1897	$C_{14}H_{24}N_4$	248.2003	$C_{17}H_{31}N$	249.2458
$C_{16}H_{23}NO$	245.1781	$C_{11}H_{27}N_4O_2$	247.2136	$C_{15}H_{10}N_3O$	248.0825	$C_{18}H_{17}O$	249.1280
$C_{16}H_{25}N_2$	245.2019	$C_{12}H_{11}N_2O_4$	247.0719	$C_{15}H_{12}N_4$	248.1063	$C_{18}H_{19}N$	249.1519
$C_{17}H_{11}NO$	245.0841	$C_{12}H_{13}N_3O_3$	247.0958	$C_{15}H_{20}O_3$	248.1413	$C_{18}H_{33}$	249.2584
$C_{17}H_{13}N_2$	245.1080	$C_{12}H_{15}N_4O_2$	247.1196	$C_{15}H_{22}NO_2$	248.1651	$C_{19}H_{21}$	249.1644
$C_{17}H_{25}O$	245.1906	$C_{12}H_{25}NO_4$	247.1784	$C_{15}H_{24}N_2O$	248.1890	**250**	
$C_{17}H_{27}N$	245.2145	$C_{12}H_{27}N_2O_3$	247.2023	$C_{15}H_{26}N_3$	248.2129	$C_{11}H_{26}N_2O_4$	250.1894
$C_{18}H_{13}O$	245.0967	$C_{12}H_{29}N_3O_2$	247.2261	$C_{16}H_{10}NO_2$	248.0712	$C_{12}H_{14}N_2O_4$	250.0954
$C_{18}H_{15}N$	245.1205	$C_{13}H_{13}NO_4$	247.0845	$C_{16}H_{12}N_2O$	248.0950	$C_{12}H_{16}N_3O_3$	250.1193
$C_{18}H_{29}$	245.2270	$C_{13}H_{15}N_2O_3$	247.1083	$C_{16}H_{14}N_3$	248.1189	$C_{12}H_{18}N_4O_2$	250.1431
$C_{19}H_{17}$	245.1331	$C_{13}H_{17}N_3O_2$	247.1322	$C_{16}H_{24}O_2$	248.1777	$C_{13}H_{16}NO_4$	250.1080
246		$C_{13}H_{19}N_4O$	247.1560	$C_{16}H_{26}NO$	248.2015	$C_{13}H_{18}N_2O_3$	250.1318
$C_{11}H_{22}N_2O_4$	246.1580	$C_{13}H_{27}O_4$	247.1910	$C_{16}H_{28}N_2$	248.2254	$C_{13}H_{20}N_3O_2$	250.1557
$C_{11}H_{24}N_3O_3$	246.1819	$C_{13}H_{29}NO_3$	247.2148	$C_{17}H_{12}O_2$	248.0837	$C_{13}H_{22}N_4O$	250.1795
$C_{11}H_{26}N_4O_2$	246.2057	$C_{14}H_{15}O_4$	247.0970	$C_{17}H_{14}NO$	248.1076	$C_{14}H_{10}N_4O$	250.0856
$C_{12}H_{10}N_2O_4$	246.0641	$C_{14}H_{17}NO_3$	247.1209	$C_{17}H_{16}N_2$	248.1315	$C_{14}H_{20}NO_3$	250.1444
$C_{12}H_{12}N_3O_3$	246.0879	$C_{14}H_{19}N_2O_2$	247.1448	$C_{17}H_{28}O$	248.2141	$C_{14}H_{22}N_2O_2$	250.1682
$C_{12}H_{14}N_4O_2$	246.1118	$C_{14}H_{21}N_3O$	247.1686	$C_{17}H_{30}N$	248.2380	$C_{14}H_{24}N_3O$	250.1921
$C_{12}H_{24}NO_4$	246.1706	$C_{14}H_{23}N_4$	247.1925	$C_{18}H_{16}O$	248.1202	$C_{14}H_{26}N_4$	250.2160
$C_{12}H_{26}N_2O_3$	246.1945	$C_{15}H_9N_3O$	247.0746	$C_{18}H_{18}N$	248.1440	$C_{15}H_{10}N_2O_2$	250.0743
$C_{12}H_{28}N_3O_2$	246.2183	$C_{15}H_{11}N_4$	247.0985	$C_{18}H_{32}$	248.2505	$C_{15}H_{12}N_3O$	250.0981
$C_{12}H_{30}N_4O$	246.2422	$C_{15}H_{19}O_3$	247.1334	$C_{19}H_{20}$	248.1566	$C_{15}H_{14}N_4$	250.1220
$C_{13}H_{12}NO_4$	246.0766	$C_{15}H_{21}NO_2$	247.1573	**249**		$C_{15}H_{22}O_3$	250.1569
$C_{13}H_{14}N_2O_3$	246.1005	$C_{15}H_{23}N_2O$	247.1811	$C_{11}H_{25}N_2O_4$	249.1815	$C_{15}H_{24}NO_2$	250.1808
$C_{13}H_{16}N_3O_2$	246.1244	$C_{15}H_{25}N_3$	247.2050	$C_{11}H_{27}N_3O_3$	249.2054	$C_{15}H_{26}N_2O$	250.2046
$C_{13}H_{18}N_4O$	246.1482	$C_{16}H_{11}N_2O$	247.0872	$C_{12}H_{13}N_2O_4$	249.0876	$C_{15}H_{28}N_3$	250.2285
$C_{13}H_{26}O_4$	246.1832	$C_{16}H_{13}N_3$	247.1111	$C_{12}H_{15}N_3O_3$	249.1114	$C_{16}H_{10}O_3$	250.0630
$C_{13}H_{28}NO_3$	246.2070	$C_{16}H_{23}O_2$	247.1699	$C_{12}H_{17}N_4O_2$	249.1353	$C_{16}H_{12}NO_2$	250.0868
$C_{13}H_{30}N_2O_2$	246.2309	$C_{16}H_{25}NO$	247.1937	$C_{12}H_{27}NO_4$	249.1941	$C_{16}H_{14}N_2O$	250.1107
$C_{14}H_{14}O_4$	246.0892	$C_{16}H_{27}N_2$	247.2176	$C_{13}H_{15}NO_4$	249.1001	$C_{16}H_{16}N_3$	250.1346
$C_{14}H_{16}NO_3$	246.1131	$C_{17}H_{11}O_2$	247.0759	$C_{13}H_{17}N_2O_3$	249.1240	$C_{16}H_{26}O_2$	250.1934
$C_{14}H_{18}N_2O_2$	246.1369	$C_{17}H_{13}NO$	247.0998	$C_{13}H_{19}N_3O_2$	249.1478	$C_{16}H_{28}NO$	250.2172
$C_{14}H_{20}N_3O$	246.1608	$C_{17}H_{15}N_2$	247.1236	$C_{13}H_{21}N_4O$	249.1717	$C_{16}H_{30}N_2$	250.2411
$C_{14}H_{22}N_4$	246.1846	$C_{17}H_{27}O$	247.2063	$C_{14}H_9N_4O$	249.0777	$C_{17}H_{14}O_2$	250.0994
$C_{14}H_{30}O_3$	246.2196	$C_{17}H_{29}N$	247.2301	$C_{14}H_{17}O_4$	249.1127	$C_{17}H_{16}NO$	250.1233
$C_{15}H_{10}N_4$	246.0907	$C_{18}H_{15}O$	247.1123	$C_{14}H_{19}NO_3$	249.1365	$C_{17}H_{18}N_2$	250.1471
$C_{15}H_{18}O_3$	246.1256	$C_{18}H_{17}N$	247.1362	$C_{14}H_{21}N_2O_2$	249.1604	$C_{17}H_{30}O$	250.2298
$C_{15}H_{20}NO_2$	246.1495	$C_{18}H_{31}$	247.2427	$C_{14}H_{23}N_3O$	249.1842	$C_{17}H_{32}N$	250.2536
$C_{15}H_{22}N_2O$	246.1733	$C_{19}H_{19}$	247.1488	$C_{14}H_{25}N_4$	249.2081	$C_{18}H_{18}O$	250.1358
$C_{15}H_{24}N_3$	246.1972	**248**		$C_{15}H_9N_2O_2$	249.0664	$C_{18}H_{20}N$	250.1597
$C_{16}H_{10}N_2O$	246.0794	$C_{11}H_{24}N_2O_4$	248.1737	$C_{15}H_{11}N_3O$	249.0903	$C_{18}H_{34}$	250.2662
$C_{16}H_{12}N_3$	246.1032	$C_{11}H_{26}N_3O_3$	248.1976	$C_{15}H_{13}N_4$	249.1142	$C_{19}H_{22}$	250.1722
$C_{16}H_{22}O_2$	246.1620	$C_{11}H_{28}N_4O_2$	248.2214	$C_{15}H_{21}O_3$	249.1491		
$C_{16}H_{24}NO$	246.1859	$C_{12}H_{12}N_2O_4$	248.0797	$C_{15}H_{23}NO_2$	249.1730		