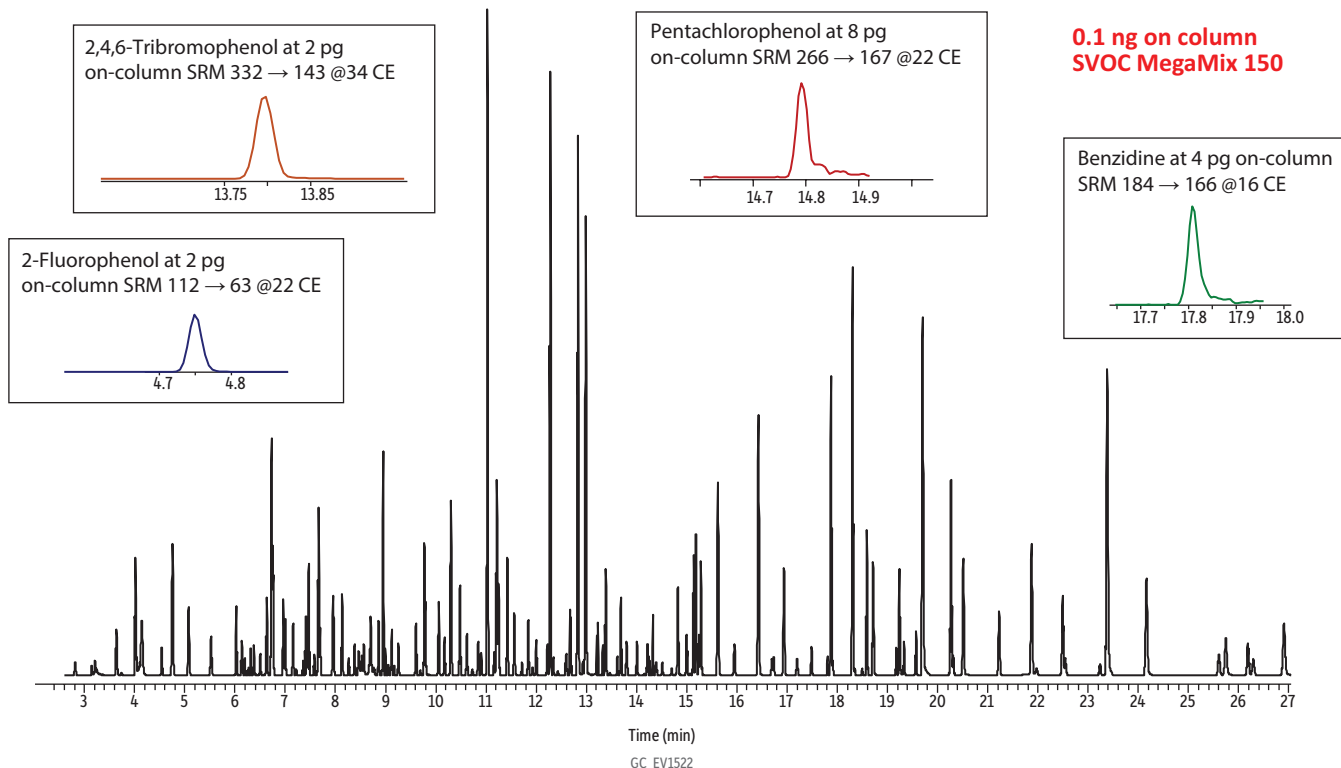


Semivolatiles on Rxi-SVOCms by GC-MS/MS



Peaks	tr (min)	Conc. (µg/mL)	SRM 1	SRM 2	SRM 3
1. 1,4-Dioxane	2.79	1	88 to 28 @14V	58 to 28 @6V	88 to 57 @8V
2. N-Nitrosodimethylamine	3.08	1	74 to 42 @16V	74 to 43 @12V	74 to 44 @6V
3. Pyridine	3.13	1	79 to 51 @26V	52 to 26 @18V	79 to 52 @12V
4. Ethyl methacrylate	3.62	1	99 to 43 @14V	69 to 41 @6V	99 to 53 @12V
5. 2-Picoline	3.96	1	93 to 65 @18V	66 to 39 @18V	93 to 66 @12V
6. N-Nitrosomethylethylamine	4.12	1	88 to 42 @16V	88 to 43 @8V	88 to 71 @6V
7. Acrylamine	4.5	1	71 to 44 @22V	55 to 27 @6V	71 to 55 @6V
8. Methyl methanesulfonate	4.52	1	80 to 48 @28V	65 to 48 @18V	80 to 65 @8V
9. 2-Fluorophenol	4.73	1	112 to 63 @22V	92 to 63 @14V	112 to 92 @6V
10. N-Nitrosodiethylamine	5.05	1	102 to 44 @10V	102 to 56 @12V	102 to 85 @6V
11. Ethyl methanesulfonate	5.51	1	109 to 45 @10V	79 to 48 @34V	109 to 79 @6V
12. Benzaldehyde	6.01	1	105 to 51 @26V	77 to 51 @14V	105 to 77 @10V
13. Phenol	6.13	1	94 to 39 @30V	94 to 65 @16V	94 to 66 @10V
14. Phenol-d6	6.14	1	99 to 69 @18V	71 to 42 @16V	99 to 71 @8V
15. Aniline	6.17	1	93 to 65 @20V	66 to 39 @18V	93 to 66 @10V
16. Pentachloroethane	6.26	1	167 to 95 @32V	117 to 82 @30V	167 to 132 @14V
17. bis-(2-Chloroethyl)ether	6.28	1	93 to 27 @22V	63 to 27 @10V	93 to 63 @6V
18. 2-Chlorophenol	6.35	1	128 to 63 @24V	64 to 38 @12V	128 to 64 @14V
19. Decane	6.49	1	85 to 41 @12V	71 to 43 @6V	85 to 43 @6V
20. 1,3-Dichlorobenzene	6.61	1	146 to 75 @24V	111 to 75 @12V	146 to 111 @12V
21. 1,4-Dichlorobenzene-d4	6.71	1	150 to 76 @38V	150 to 78 @26V	150 to 115 @14V
22. 1,4-Dichlorobenzene	6.74	1	146 to 75 @24V	111 to 75 @12V	146 to 111 @14V
23. Benzyl alcohol	6.94	1	108 to 77 @22V	79 to 51 @20V	108 to 79 @12V
24. 1,2-Dichlorobenzene	6.98	1	146 to 111 @12V	111 to 50 @36V	111 to 75 @10V
25. Indene	7.12	1	116 to 89 @28V	115 to 63 @26V	115 to 89 @16V
26. 2-Methylphenol	7.14	1	108 to 77 @24V	79 to 51 @20V	108 to 80 @8V
27. 2,2'-oxybis(1-chloropropane)	7.2	1	121 to 45 @6V	77 to 51 @12V	121 to 77 @8V
28. N-Nitrosopyrrolidine	7.34	1	100 to 43 @8V	100 to 55 @6V	100 to 68 @8V
29. Acetophenone	7.37	1	105 to 51 @26V	77 to 51 @14V	105 to 77 @12V
30. 3- and 4-Methylphenol	7.41	1	107 to 51 @26V	70 to 43 @6V	107 to 77 @12V
31. N-Nitrosomorpholine	7.42	1	116 to 56 @10V	86 to 56 @6V	116 to 86 @6V
32. o-Toluidine	7.44	1	107 to 77 @26V	106 to 77 @16V	106 to 79 @8V
33. Hexachloroethane	7.56	1	201 to 131 @30V	117 to 82 @24V	201 to 166 @12V
34. Nitrobenzene-d5	7.63	1	128 to 54 @28V	82 to 54 @12V	128 to 82 @12V
35. Nitrobenzene	7.68	1	123 to 51 @30V	77 to 51 @12V	123 to 77 @10V
36. N-Nitrosopiperidine	7.94	1	114 to 41 @10V	114 to 84 @6V	114 to 97 @6V
37. Isophorone	8.12	1	138 to 82 @8V	82 to 39 @12V	82 to 54 @6V
38. 2-Nitrophenol	8.25	1	139 to 81 @12V	109 to 81 @8V	139 to 109 @8V
39. 2,4-Dimethylphenol	8.36	1	122 to 77 @26V	107 to 77 @14V	122 to 107 @12V
40. O,O,O-Triethyl phosphorothioate	8.51	1	198 to 114 @12V	121 to 65 @10V	198 to 121 @8V

41. Benzoic acid	8.53	1	122 to 77 @20V	105 to 77 @10V	122 to 105 @8V
42. Bis(2-chloroethoxy)methane	8.55	1	93 to 63 @6V	63 to 26 @36V	63 to 27 @12V
43. Phentermine	8.64	1	134 to 91 @20V	58 to 42 @22V	134 to 115 @12V
44. 2,4-Dichlorophenol	8.68	1	162 to 63 @24V	98 to 63 @8V	162 to 98 @12V
45. 1,2,4-Trichlorobenzene	8.84	1	180 to 109 @24V	145 to 109 @10V	180 to 145 @12V
46. Naphthalene-d8	8.91	1	136 to 84 @20V	136 to 108 @18V	136 to 134 @14V
47. Naphthalene	8.97	1	129 to 103 @14V	128 to 78 @20V	128 to 102 @16V
48. a-Terpineol	9.04	1	136 to 93 @10V	121 to 93 @8V	136 to 121 @8V
49. 4-Chloroaniline	9.09	1	127 to 65 @20V	65 to 39 @12V	127 to 100 @10V
50. 2,6-Dichlorophenol	9.11	1	164 to 63 @26V	162 to 63 @26V	162 to 126 @8V
51. Hexachloropropene	9.15	1	215 to 119 @18V	213 to 119 @18V	215 to 121 @18V
52. Hexachlorobutadiene	9.23	1	260 to 190 @26V	225 to 190 @14V	260 to 225 @12V
53. Quinoline	9.6	1	129 to 76 @26V	102 to 76 @12V	129 to 102 @16V
54. Caprolactam	9.7	1	113 to 56 @10V	85 to 67 @6V	113 to 85 @6V
55. N-Nitrosodibutylamine	9.76	1	116 to 74 @8V	84 to 56 @14V	116 to 99 @6V
56. 1,4-Phenylenediamine	9.77	1	108 to 80 @20V	80 to 53 @12V	108 to 81 @10V
57. 4-Chloro-3-methylphenol	10.04	1	142 to 77 @26V	107 to 77 @12V	142 to 107 @12V
58. Isosafrole I	10.16	1	162 to 104 @12V	131 to 103 @8V	162 to 131 @12V
59. 2-Methylnaphthalene	10.28	1	141 to 89 @30V	115 to 89 @16V	141 to 115 @16V
60. 1-Methylnaphthalene	10.46	1	141 to 89 @30V	115 to 89 @14V	141 to 115 @16V
61. Hexachloropentadiene	10.59	1	272 to 237 @12V	237 to 119 @20V	237 to 143 @22V
62. 1,2,4,5-Tetrachlorobenzene	10.61	1	216 to 108 @36V	179 to 143 @8V	216 to 181 @14V
63. Isosafrole II	10.73	1	162 to 104 @12V	131 to 103 @10V	162 to 131 @12V
64. 2,3-Dichloroaniline	10.83	1	163 to 90 @18V	161 to 90 @16V	161 to 99 @18V
65. 2,4,6-Trichlorophenol	10.83	1	196 to 97 @24V	132 to 97 @10V	160 to 97 @16V
66. 2,4,5-Trichlorophenol	10.88	1	196 to 97 @24V	132 to 97 @10V	196 to 132 @12V
67. 2-Fluorobiphenyl	10.99	1	172 to 151 @22V	172 to 170 @22V	172 to 171 @12V
68. Safrole	11.16	1	162 to 77 @30V	131 to 103 @10V	162 to 127 @16V
69. 2-Chloronaphthalene	11.2	1	162 to 77 @32V	127 to 77 @16V	162 to 127 @16V
70. Biphenyl	11.2	1	153 to 126 @32V	154 to 115 @24V	154 to 152 @22V
71. 1-Chloronaphthalene	11.25	1	162 to 77 @30V	127 to 77 @16V	162 to 127 @16V
72. o-Nitroaniline	11.41	1	138 to 65 @22V	108 to 80 @8V	138 to 92 @12V
73. Diphenyl ether	11.42	1	170 to 141 @16V	141 to 115 @14V	170 to 142 @10V
74. 1,4-Naphthoquinone	11.56	1	158 to 102 @14V	102 to 76 @12V	158 to 130 @8V
75. 1,2-Dinitrobenzene	11.7	1	168 to 75 @20V	122 to 75 @12V	168 to 122 @8V
76. 1,3-Dinitrobenzene	11.83	1	168 to 75 @22V	76 to 50 @10V	168 to 122 @8V
77. Diphenyl phthalate	11.83	1	163 to 77 @20V	163 to 92 @24V	163 to 133 @8V
78. 1,6-Dinitrotoluene	11.91	1	165 to 63 @20V	148 to 90 @10V	165 to 148 @8V
79. Acenaphthylene	11.98	1	152 to 76 @36V	152 to 102 @26V	152 to 126 @24V
80. 1,4-Dinitrobenzene	11.99	1	168 to 51 @14V	76 to 63 @6V	168 to 63 @26V
81. 3-Nitroaniline	12.21	1	138 to 65 @20V	92 to 65 @8V	138 to 92 @12V
82. Acenaphthene-d10	12.24	1	164 to 160 @32V	162 to 160 @18V	164 to 162 @14V
83. Acenaphthene	12.32	1	153 to 77 @38V	153 to 126 @36V	154 to 127 @34V
84. 2,4-Dinitrophenol	12.41	1	184 to 107 @10V	154 to 79 @12V	184 to 154 @6V
85. 4-Nitrophenol	12.57	1	139 to 81 @14V	109 to 81 @8V	139 to 109 @6V
86. Pentachlorobenzene	12.6	1	250 to 142 @38V	215 to 179 @10V	250 to 215 @16V
87. 2,4-Dinitrotoluene	12.66	1	165 to 63 @22V	89 to 63 @12V	165 to 119 @6V
88. Dibenzofuran	12.66	1	168 to 139 @22V	139 to 63 @30V	139 to 89 @18V
89. 1-Naphthylamine	12.81	1	143 to 115 @22V	115 to 89 @16V	143 to 116 @10V
90. 2,3,5,6-Tetrachlorophenol	12.83	1	234 to 133 @26V	232 to 131 @26V	232 to 168 @12V
91. 2,3,4,6-Tetrachlorophenol	12.91	1	234 to 131 @24V	232 to 133 @26V	232 to 168 @12V
92. 2-Naphthylamine	12.97	1	143 to 115 @24V	115 to 89 @16V	143 to 116 @10V
93. Diethyl Phthalate	13.21	1	177 to 149 @8V	149 to 65 @20V	149 to 93 @12V
94. Hexadecane	13.29	1	99 to 41 @14V	85 to 43 @6V	99 to 57 @6V
95. Fluorene	13.31	1	167 to 166 @14V	165 to 115 @24V	165 to 139 @26V
96. Zinophos	13.36	1	143 to 79 @10V	107 to 52 @20V	107 to 79 @14V
97. 5-Nitro-o-toluidine	13.37	1	152 to 77 @24V	106 to 77 @12V	152 to 106 @10V
98. 4-Chlorophenyl phenyl ether	13.37	1	204 to 77 @22V	141 to 115 @14V	204 to 141 @12V
99. 4-Nitroaniline	13.37	1	138 to 80 @18V	108 to 80 @10V	138 to 108 @8V
100. 4,6-Dinitro-2-methylphenol	13.45	1	198 to 121 @10V	168 to 121 @6V	198 to 168 @6V
101. Diphenylamine	13.6	1	169 to 66 @22V	169 to 77 @30V	170 to 66 @22V
102. Azobenzene	13.67	1	182 to 77 @12V	77 to 51 @14V	182 to 105 @6V
103. 2,4,6-Tribromophenol	13.77	1	332 to 143 @34V	330 to 141 @36V	330 to 222 @20V
104. Sulfotep	14	1	322 to 146 @24V	202 to 146 @10V	322 to 202 @10V
105. 1,3,5-Trinitrobenzene	14.14	1	213 to 74 @38V	213 to 120 @22V	213 to 167 @8V
106. Diallate 1	14.2	1	234 to 150 @16V	86 to 43 @6V	234 to 192 @12V
107. Phorate	14.22	1	121 to 47 @26V	75 to 47 @8V	121 to 65 @8V
108. Phenacetin	14.25	1	179 to 109 @14V	108 to 80 @12V	179 to 137 @8V
109. 4-Bromophenyl phenyl ether	14.31	1	250 to 141 @16V	141 to 115 @12V	248 to 141 @14V
110. Diallate 2	14.37	1	234 to 150 @16V	86 to 43 @6V	234 to 192 @10V
111. Hexachlorobenzene	14.37	1	288 to 216 @26V	249 to 214 @12V	284 to 249 @14V
112. Dimethoate	14.51	1	125 to 47 @14V	93 to 63 @8V	125 to 79 @8V
113. Atrazine	14.7	1	215 to 58 @10V	200 to 122 @8V	215 to 200 @8V
114. Pentachlorophenol	14.77	1	270 to 169 @22V	228 to 165 @14V	266 to 167 @22V
115. 4-Aminobiphenyl	14.79	1	169 to 141 @22V	168 to 141 @8V	168 to 167 @10V
116. Pentachloronitrobenzene	14.81	1	295 to 237 @14V	237 to 143 @20V	295 to 265 @8V
117. Propylamide	15	1	254 to 191 @16V	173 to 145 @14V	254 to 226 @10V
118. Octadecane	15.1	1	99 to 41 @14V	85 to 43 @6V	99 to 57 @6V
119. Phenanthrene-d10	15.1	1	188 to 160 @20V	184 to 154 @32V	184 to 156 @22V
120. Phenanthrene	15.16	1	178 to 151 @32V	176 to 150 @20V	178 to 152 @20V
121. Dinoseb	15.21	1	240 to 117 @24V	163 to 116 @14V	240 to 211 @8V
122. Disulfoton	15.22	1	97 to 65 @16V	88 to 60 @6V	97 to 79 @12V
123. Anthracene	15.26	1	178 to 151 @32V	177 to 151 @18V	178 to 152 @18V
124. Carbazole	15.6	1	167 to 139 @24V	166 to 140 @14V	167 to 166 @12V
125. Methyl Parathion	15.95	1	263 to 79 @24V	125 to 47 @12V	263 to 109 @10V
126. di-n-Butyl phthalate	16.41	1	149 to 65 @20V	149 to 93 @14V	149 to 121 @12V
127. 4-Nitroquinoline-N-oxide	16.69	1	190 to 77 @20V	101 to 75 @10V	190 to 160 @8V
128. Ethyl Parathion	16.73	1	291 to 81 @26V	109 to 81 @10V	291 to 109 @10V
129. Methapyrilene	16.9	1	190 to 97 @14V	97 to 53 @16V	190 to 157 @8V
130. Isodrin	17.19	1	261 to 191 @28V	193 to 123 @28V	261 to 226 @16V

131. Fluoranthene	17.47	1	202 to 152 @30V	200 to 174 @22V	202 to 176 @26V
132. Benzidine	17.8	1	184 to 130 @26V	184 to 156 @18V	184 to 166 @16V
133. Pyrene-d10	17.84	1	212 to 208 @36V	212 to 210 @20V	0
134. Pyrene	17.88	1	200 to 149 @34V	200 to 150 @26V	200 to 174 @24V
135. p-Terphenyl-d14	18.3	1	244 to 226 @18V	244 to 240 @22V	244 to 242 @14V
136. Aramite 1	18.33	1	319 to 123 @10V	175 to 107 @14V	319 to 185 @6V
137. Aramite 2	18.49	1	319 to 107 @36V	185 to 63 @12V	319 to 185 @6V
138. p-Dimethylaminoazobenzene	18.57	1	225 to 120 @10V	120 to 77 @16V	225 to 148 @6V
139. Chlorobenzilate	18.71	1	251 to 111 @30V	139 to 111 @12V	251 to 139 @12V
140. Famfur	19.17	1	218 to 109 @14V	125 to 47 @14V	125 to 79 @6V
141. 3,3'-Dimethylbenzidine	19.21	1	212 to 180 @22V	211 to 195 @16V	211 to 196 @8V
142. Kepone	19.24	1	272 to 237 @12V	237 to 119 @24V	237 to 143 @22V
143. Benzyl butyl phthalate	19.31	1	206 to 149 @8V	149 to 65 @20V	149 to 121 @10V
144. Bis(2-ethylhexyl) adipate	19.55	1	129 to 55 @14V	111 to 83 @6V	129 to 83 @8V
145. 2-Acetylaminofluorene	19.69	1	223 to 180 @26V	181 to 152 @34V	223 to 181 @10V
146. Chrysene-d12	20.23	1	240 to 212 @22V	240 to 236 @30V	240 to 238 @14V
147. Benz[a]anthracene	20.23	1	228 to 202 @24V	226 to 199 @36V	226 to 200 @28V
148. 3,3'-Dichlorobenzidine	20.25	1	252 to 154 @26V	252 to 181 @24V	252 to 182 @20V
149. 4,4'-Methylenebis(2-chloroaniline)	20.28	1	266 to 195 @28V	231 to 195 @16V	266 to 231 @12V
150. Chrysene	20.3	1	228 to 202 @22V	226 to 200 @28V	228 to 201 @36V
151. Bis(2-ethylhexyl) phthalate	20.49	1	167 to 149 @8V	149 to 93 @16V	149 to 121 @14V
152. 6-Methylchrysene	21.19	1	242 to 226 @28V	239 to 213 @26V	239 to 237 @32V
153. Di-n-octyl phthalate	21.86	1	149 to 65 @22V	149 to 93 @16V	149 to 121 @12V
154. 7,12-Dimethylbenz[a]anthracene	22.45	1	256 to 239 @38V	241 to 226 @14V	256 to 241 @12V
155. Benzo[b]fluoranthene	22.46	1	252 to 226 @24V	250 to 223 @38V	250 to 224 @24V
156. Benzo[k]fluoranthene	22.53	1	252 to 226 @22V	250 to 223 @38V	250 to 224 @26V
157. Benzo[a]pyrene	23.21	1	252 to 226 @26V	250 to 223 @38V	250 to 224 @26V
158. Perylene-d12	23.33	1	264 to 236 @24V	264 to 260 @34V	264 to 262 @20V
159. 3-Methylcholanthrene	24.16	1	268 to 252 @32V	252 to 226 @22V	268 to 253 @14V
160. Dibenz(a,h)acridine	25.55	1	279 to 252 @34V	278 to 250 @24V	278 to 275 @36V
161. Dibenz[a,j]acridine	25.74	1	279 to 250 @38V	278 to 250 @26V	279 to 277 @30V
162. Indeno[1,2,3-cd]pyrene	26.16	1	276 to 250 @30V	276 to 274 @34V	138 to 125 @12V
163. Dibenz[a,h]anthracene	26.24	1	278 to 252 @26V	139 to 113 @14V	139 to 126 @8V
164. Benzo[ghi]perylene	26.88	1	276 to 274 @38V	138 to 124 @28V	138 to 125 @12V

Column	Rxi-SVOCms, 30 m, 0.25 mm ID, 0.25 µm (cat.# 16623)
Standard/Sample	SVOC MegaMix 150 kit (cat.# 31907) SV internal standard mix (cat.# 31206) Acid surrogate mix (4/89 SOW) (cat.# 31063) Revised B/N surrogate mix (cat.# 31888)
Diluent:	Dichloromethane
Conc.:	1 µg/mL (0.1 ng on-column)
Injection	
Inj. Vol.:	1 µL split (split ratio 10:1)
Liner:	Topaz 4.0 mm ID single taper inlet liner w/ wool (cat.# 23303)
Inj. Temp.:	250 °C
Oven	
Oven Temp.:	40 °C (hold 1 min) to 280 °C at 12.4 °C/min to 330 °C at 3.3 °C/min (hold 3.65 min)
Carrier Gas	He, constant flow
Flow Rate:	1.2 mL/min
Detector	TSQ8000
Transfer Line Temp.:	280 °C
Analyzer Type:	Quadrupole
Source Temp.:	330 °C
Quad Temp.:	180 °C
Electron Energy:	70 eV
Solvent Delay Time:	2 min
Tune Type:	PFTBA
Ionization Mode:	EI
Instrument	Thermo Trace GC
Sample Preparation	Solutions were mixed and diluted to 1 ppm or lower with dichloromethane in amber 2 mL, 9 mm short-cap, screw-thread vials (cat.# 21143) and sealed with 2.0 mL, 9 mm short-cap, screw-vial closures (cat.# 23842).
Notes	The compounds in the inserts are at lower concentrations than the full chromatogram and are showing specific transitions as noted in the inserts. The SVOC MegaMix 150 kit (cat.# 31907) contains one ampul each of the following standards: • 8270 MegaMix (cat.# 31850) • SVOC additions standard (cat.# 31909) • Appendix IX mix #1, revised (cat.# 32459) • Methapyrilene (cat.# 32460) • Appendix IX mix #2 (cat.# 31806) • Benzoic acid (cat.# 31879)