

# EPA Method 525.3 Full Analyte List on Rxi®-5Sil MS

Peaks	t <sub>R</sub> (min)	Peaks	t <sub>R</sub> (min)	Peaks	t <sub>R</sub> (min)
1. Diisopropyl methylphosphonate (DIMP)	5.16	75. 2,2',3,5'-Tetrachlorobiphenyl	16.81	122. Fenarimol	23.72
2. Isophorone	6.13	76. Ethyl parathion	16.81	123. <i>cis</i> -Permethrin	24.57
3. 1,3-Dimethyl-2-nitrobenzene (SS)	7.03	77. Triadimefon	16.89	124. <i>trans</i> -Permethrin	24.75
4. Dichlorvos	7.80	78. Diphenamid	17.15	125. Benzo[b]fluoranthene	25.44
5. Hexachlorocyclopentadiene (HCCPD)	9.08	79. MGK 264(a)	17.19	126. Benzo[k]fluoranthene	25.53
6. S-Ethyl dipropylthiocarbamate (EPTC)	9.38	80. MGK 264(b)	17.49	127. Benzo[a]pyrene-D12 (SS)	26.27
7. Mevinphos I	10.20	81. Chlorfenvinphos	17.64	128. Benzo[a]pyrene	26.33
8. Mevinphos II	10.25	82. Heptachlor epoxide	17.65	129. Fluridone	26.46
9. Butylate	10.32	83. 2,3',4',5'-Tetrachlorobiphenyl	17.76	130. Indeno[1,2,3-cd]pyrene	29.24
10. Vernolate	10.55	84. <i>trans</i> -Chlordane	18.20	131. Dibenzo[a,h]anthracene	29.34
11. Dimethylphthalate	10.58	85. Tetrachlorvinphos	18.27	132. Benzo[g,h,i]perylene	29.84
12. Etridiazole	10.60	86. Butachlor	18.35		
13. 2,6-Dinitrotoluene	10.67	87. Pyrene	18.46		
14. Pebulate	10.73	88. <i>cis</i> -Chlordane	18.51		
15. Acenaphthylene	10.74	89. Endosulfan I	18.52		
16. Acenaphthene-D10 (IS)	11.09	90. <i>trans</i> -Nonachlor	18.59		
17. 2-Chlorobiphenyl	11.29	91. Napropanide	18.66		
18. Butylated hydroxytoluene (BHT)	11.30	92. Profenofos	18.90		
19. Chloroneb	11.30	93. 4,4'-DDE	19.02		
20. Tebuthiuron	11.46	94. Tribufos (+merphos)	19.06		
21. 2,4-Dinitrotoluene	11.61	95. Oxyfluorfen	19.14		
22. Molinate	11.75	96. Dieldrin	19.16		
23. N,N-Diethyl-meta-toluamide (DEET)	12.14	97. 2,3,3',4',6-Pentachlorobiphenyl	19.18		
24. Diethylphthalate	12.28	98. Nitrofen	19.59		
25. 4-Chlorobiphenyl	12.30	99. Endrin	19.67		
26. Fluorene	12.39	100. 2,2',3,4',5',6-Hexachlorobiphenyl	19.74		
27. Propachlor	12.51	101. Chlorobenzilate	19.81		
28. Ethoprop	12.83	102. 2,3',4,4',5-Pentachlorobiphenyl	19.83		
29. Cycloate	12.87	103. Endosulfan II	19.91		
30. Chlorpropham	13.09	104. 4,4'-DDD	20.02		
31. Trifluralin	13.17	105. Ethion	20.02		
32. Phorate	13.50	106. 2,2',4,4',5,5'-Hexachlorobiphenyl	20.35		
33. α-HCH	13.61	107. Norflurazon	20.68		
34. 2,4'-Dichlorobiphenyl	13.67	108. Butylbenzylphthalate	20.82		
35. Hexachlorobenzene	13.70	109. Endosulfan sulfate	20.85		
36. Atraton	13.88	110. 4,4'-DDT	20.96		
37. Prometon	14.01	111. 2,2',3,4,4',5'-Hexachlorobiphenyl	20.99		
38. Simazine	14.02	112. Hexazinone	21.04		
39. Dimethipin	14.09	113. Tebuconazole	21.27		
40. Atrazine	14.11	114. Di(2-ethylhexyl)adipate	21.29		
41. β-HCH	14.12	115. Triphenyl phosphate (SS)	21.38		
42. Pentachlorophenol-C13 (IS)	14.19	116. Benzo[a]anthracene	22.19		
43. Propazine	14.19	117. Chrysene-D12 (IS)	22.22		
44. Pentachlorophenol	14.20	118. Chrysene	22.30		
45. γ-HCH (Lindane)	14.33	119. Methoxychlor	22.32		
46. Pronamide	14.49	120. 2,2',3,4,4',5,5'-Heptachlorobiphenyl	22.62		
47. 2,2',5-Trichlorobiphenyl	14.56	121. Di(2-ethylhexyl)phthalate	22.84		
48. Phenanthrene-D10 (IS)	14.61				
49. Phenanthrene	14.66				
50. Chlorothalonil	14.66				
51. Terbacil	14.77				
52. Disulfoton	14.78				
53. Anthracene	14.79				
54. δ-HCH	14.90				
55. Phosphamidon	15.37				
56. Acetochlor	15.55				
57. Metribuzin	15.56				
58. 2,4,4'-Trichlorobiphenyl	15.61				
59. Vinclozolin	15.66				
60. Methyl parathion	15.71				
61. Alachlor	15.75				
62. Simetryn	15.81				
63. Ametryn	15.90				
64. Heptachlor	15.94				
65. Prometryn	15.96				
66. Terbutryn	16.25				
67. Bromacil	16.31				
68. 2,2',5,5'-Tetrachlorobiphenyl	16.37				
69. Dibutyl phthalate	16.40				
70. Metolachlor	16.60				
71. Chlorpyrifos	16.64				
72. Cyanazine	16.70				
73. Aldrin	16.76				
74. Dacthal (DCPA)	16.77				

**Column** Rxi®-5Sil MS, 30 m, 0.25 mm ID, 0.25 µm (cat.# 13623)  
**Sample** EPA Method 525.3 OCP cal standard (cat.# 32542)  
 EPA Method 525.3 OPP cal standard (cat.# 32543)  
 EPA Method 525.3 ONP cal standard (cat.# 32544)  
 EPA Method 525.3 PAH cal standard (cat.# 32545)  
 EPA Method 525.3 PCB cal standard (cat.# 32546)  
 EPA Method 525.3 PAH IS mix (cat.# 32547)  
 EPA Method 525.3 PCP IS (cat.# 32548)  
 EPA Method 525.3 surrogate standard (cat.# 32549)

**Diluent:** Ethyl acetate  
**Conc.:** 2 µg/mL (Pentachlorophenol concentration: 8 µg/mL)

**Injection**  
**Inj. Vol.:** 1 µL pulsed splitless (hold 1 min)  
**Liner:** Premium 4 mm single taper w/wool (cat.# 23303.1)  
**Inj. Temp.:** 275 °C  
**Pulse Pressure:** 30 psi (206.8kPa)  
**Pulse Time:** 1 min  
**Purge Flow:** 80 mL/min

**Oven**  
**Oven Temp.:** 70 °C (hold 1 min) to 200 °C at 10 °C/min to 320 °C at 7 °C/min (hold 3 min)

**Carrier Gas** He, constant flow  
**Flow Rate:** 1.2 mL/min

**Detector** MS  
**Mode:** Scan  
**Scan Program:**

Goup	Start Time (min)	Scan Range (amu)	Scan Rate (scans/sec)
1	5	45-550	5.5

**Transfer Line**  
**Temp.:** 280 °C  
**Analyzer Type:** Quadrupole  
**Source Type:** Extractor  
**Source Temp.:** 350 °C  
**Quad Temp.:** 200 °C

**Solvent Delay**  
**Time:** 5 min  
**Tune Type:** DFTPP  
**Ionization Mode:** EI  
**Instrument** Agilent 7890B GC & 5977A MSD

