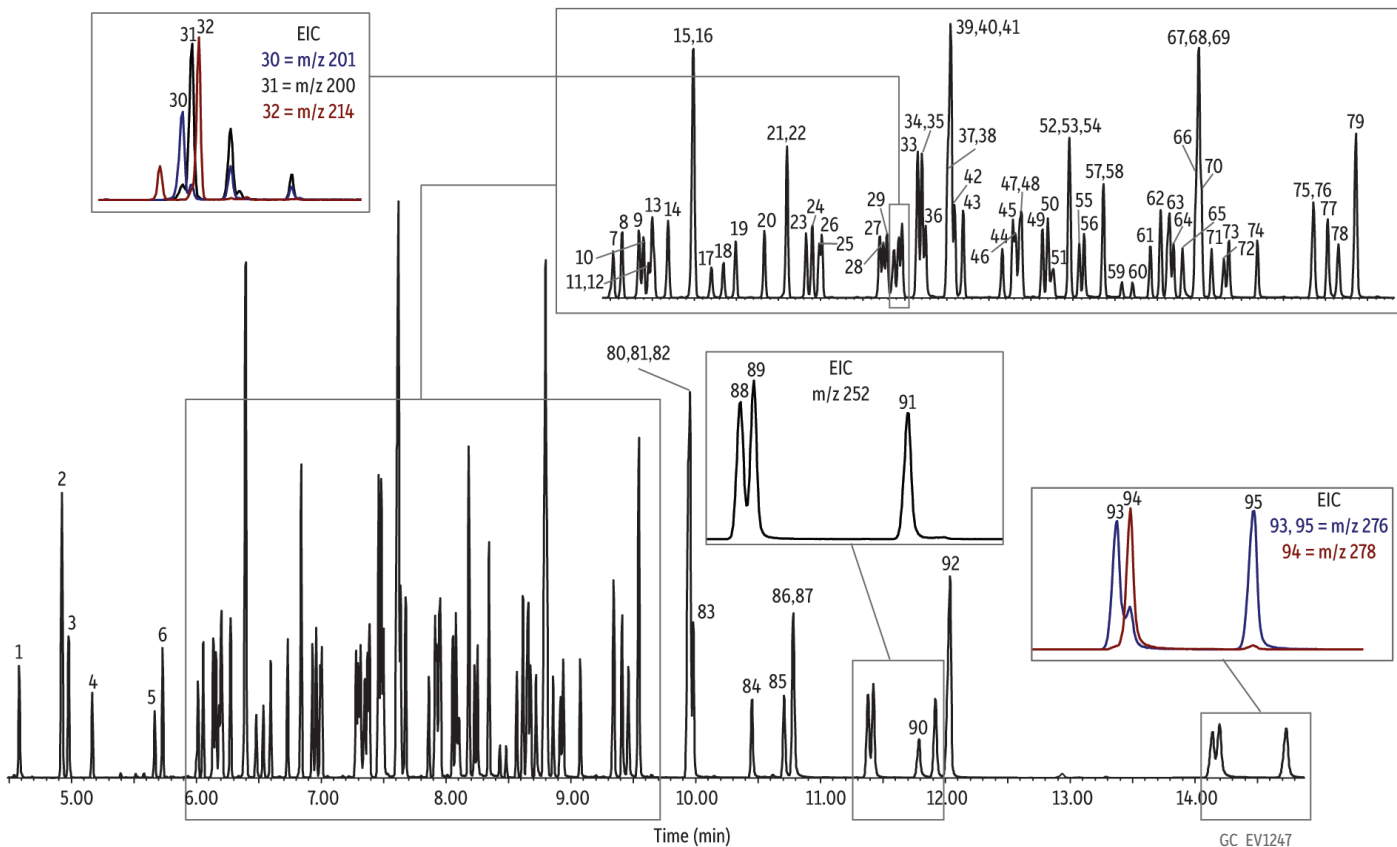


# Semivolatile Organics in Drinking Water on Rxi®-5Sil MS by EPA Method 525.2

- |                                   |                            |  |                               |                                     |
|-----------------------------------|----------------------------|--|-------------------------------|-------------------------------------|
| <b>Peaks</b>                      | <b>Peaks</b>               | <b>Peaks</b>                               | <b>Peaks</b>                  | <b>Peaks</b>                        |
| 1. Isophorone                     | 21. Fluorene               | 41. Terbacil                               | 60. Merphos                   | 80. Benzo[a]anthracene              |
| 2. 2-nitro- <i>m</i> -xylene (SS) | 22. Propachlor             | 42. Phenanthrene                           | 61. Heptachlor epoxide        | 81. Bis(2-ethylhexyl)phthalate      |
| 3. Naphthalene                    | 23. Ethoprop (ethoprophos) | 43. Anthracene                             | 62. Fluoranthene              | 82. Chrysene-d12 (IS)               |
| 4. Dichlorvos (DDVP)              | 24. Cycloate               | 44. Metribuzin                             | 63. Stirofos                  | 83. Chrysene                        |
| 5. Hexachlorocyclopentadiene      | 25. Trifluralin            | 45. Alachlor                               | 64. Butachlor                 | 84. Fenarimol                       |
| 6. EPTC                           | 26. Chlorpropham           | 46. Simetryn                               | 65. Disulfoton sulfone        | 85. <i>cis</i> -Permethrin          |
| 7. Mevinphos                      | 27. Atraton                | 47. Ametryn                                | 66. Fenamiphos                | 86. Di- <i>n</i> -octyl phthalate   |
| 8. Butylate                       | 28. Hexachlorobenzene      | 48. Prometryn                              | 67. Napropamide (Devrinol®)   | 87. <i>trans</i> -Permethrin        |
| 9. Vernolate                      | 29. Prometon               | 49. Terbutryn                              | 68. Pyrene-d10 (SS)           | 88. Benzo[b]fluoranthene            |
| 10. Dimethyl phthalate            | 30. Simazine               | 50. Dibutyl phthalate                      | 69. <i>trans</i> -Nonachlor   | 89. Benzo[k]fluoranthene            |
| 11. Etridiazole                   | 31. Atrazine               | 51. Bromacil                               | 70. Pyrene                    | 90. Fluridone (Sonar®)              |
| 12. Pebulate                      | 32. Propazine              | 52. Metolachlor                            | 71. Tribufos (merphos oxide)  | 91. Benzo[a]pyrene                  |
| 13. 2,6-Dinitrotoluene            | 33. Pentachlorophenol      | 53. Chlorpyrifos                           | 72. Tricyclazole (Beam)       | 92. Perylene-d12 (SS)               |
| 14. Acenaphthylene                | 34. Terbufos               | 54. Cyanazine (Bladex)                     | 73. Carboxin                  | 93. Indeno[1,2,3- <i>cd</i> ]pyrene |
| 15. Acenaphthene-d10 (IS)         | 35. Diazinon               | 55. DCPA methyl ester (Chlorthal-dimethyl) | 74. Chlorbenzilate            | 94. Dibenzo[a,h]anthracene          |
| 16. Chlorneb                      | 36. Propyzamide            | 56. Triadimefon                            | 75. Norflurazon               | 95. Benzo[ghi]perylene              |
| 17. Tebuthiuron                   | 37. Disulfoton             | 57. Diphenamid                             | 76. Benzyl butyl phthalate    |                                     |
| 18. 2,4-Dinitrotoluene            | 38. Methylparaoxon         | 58. MGK-264 (isomer A)                     | 77. Bis(2-ethylhexyl) adipate |                                     |
| 19. Molinate                      | 39. Chlorothalonil         | 59. MGK-264 (isomer B)                     | 78. Hexazinon (Velpar®)       |                                     |
| 20. Diethyl phthalate             | 40. Phenanthrene-d10 (IS)  |  | 79. Triphenylphosphate (SS)   |                                     |



**Column** Rxi®-5Sil MS, 30 m, 0.25 mm ID, 0.25 µm (cat.# 13623)  
**Sample** Method 525.2 internal standard mix (cat.# 31825)  
 Method 525.2 surrogate standard mix (cat.# 31826)  
 Method 525.2 semivolatile mix (revised) (cat.# 31899)  
 Organochlorine pesticide mix #2 (rev), Method 525.2 (cat.# 33011)  
 Organonitrogen pesticide mix #1 (rev), Method 525.2 (cat.# 33012)  
 Organophosphorus pesticide mix #1 (rev), Method 525.2 (cat.# 33013)  
 Method 525.2 nitrogen/phosphorus pesticide mix #2 (cat.# 32423)

**Diluent:** Acetone  
**Conc.:** 8 µg/mL (IS/SS 25 µg/mL)

**Injection**  
**Inj. Vol.:** 1 µL pulsed splitless (hold 0.59 min)  
**Liner:** Premium 4 mm single taper w/wool (cat.# 23303.5)  
**Inj. Temp.:** 270 °C  
**Pulse Pressure:** 30 psi (206.8kPa)  
**Pulse Time:** 0.64 min  
**Purge Flow:** 100 mL/min

**Oven**  
**Oven Temp.:** 50 °C (hold 1 min) to 285 °C at 30 °C/min to 305 °C at 3 °C/min to 320 °C at 30 °C/min (hold 1 min)

**Carrier Gas**  
**Flow Rate:** He, constant flow  
 1.2 mL/min  
**Linear Velocity:** 39.723 cm/sec @ 40 °C

**Detector**  
**Mode:** MS  
**Transfer Line Temp.:** 280 °C  
**Analyzer Type:** Quadrupole  
**Source Temp.:** 270 °C  
**Quad Temp.:** 150 °C  
**Solvent Delay Time:** 4 min  
**Tune Type:** DFTPP  
**Ionization Mode:** EI  
**Scan Range:** 35-550 amu  
**Scan Rate:** 5.36 scans/sec

**Instrument** Agilent 7890A GC & 5975C MSD