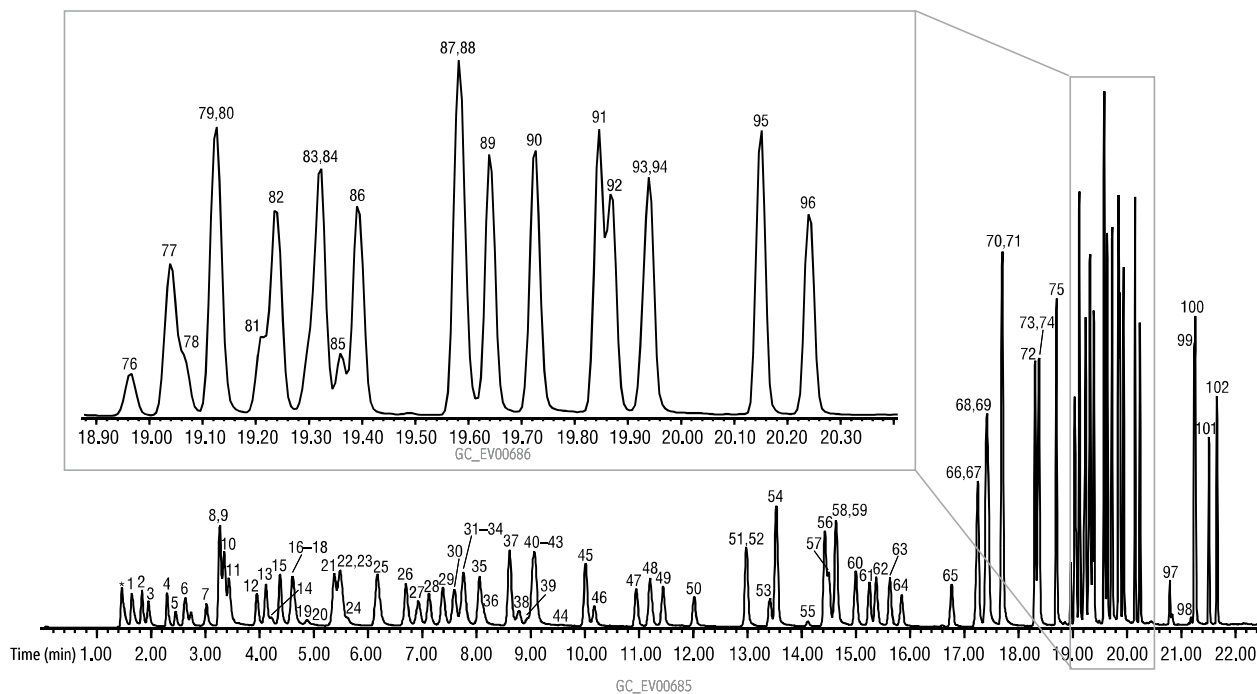


# Volatile Organics by EPA Method 8260 (80ppb Standard) on Rtx®-VMS



**Column** Rtx®-VMS, 30 m, 0.25 mm ID, 1.4 µm (cat.# 19915)  
**Sample** 8260B MegaMix Calibration Mix Kit (cat.# 30475)  
 California Oxygenates Mix (cat.# 30465)  
 VOA Calibration Mix #1 (ketones) (cat.# 30006)  
 8260A Surrogate Mix (cat.# 30240)  
 8260 Internal Standard Mix (cat.# 30074)  
**Injection** purge and trap split (split ratio 25:1)  
 Inj. Temp.: 250 °C  
**Purge and Trap**  
 Instrument: O.I. Analytical 4560 with 4551A Autosampler  
 Trap Type: #10 (Tenax®/silica gel/carbon molecular sieve)  
 Purge: 11 min @ 20 °C, flow 38 mL/min  
 Desorb Preheat Temp.: 150 °C  
 Desorb: 1.0 min @ 190 °C, flow 32 mL/min  
 Bake: 10 min @ 210 °C  
 Transfer Line Temp.: 110 °C

**Oven**  
 Oven Temp: 35 °C (hold 7 min) to 90 °C at 4 °C/min to 220 °C at 45 °C/min (hold 1 min)  
**Carrier Gas** He, constant flow  
 Flow Rate: 1.3 mL/min  
 Dead Time: 1.47 min @ 35 °C  
**Detector** Agilent 5971A GC/MS  
 Transfer Line Temp.: 280 °C  
 Tune Type: PFTBA/BFB  
 Scan Range: 35-260 amu  
**Notes** Sample size: 10mL  
 Sample temp: 40°C  
 Water Management: 110°C purge, 0°C desorb, 240°C bake  
 6-Port Valve: 110°C  
 Sparge Mount: 45°C  
 Valve Manifold: 50°C  
 Other Conditions: prepurge, preheat, dry purge OFF  
**Acknowledgement** Purge & trap courtesy of O.I. Analytical

Peaks		
1. Dichlorodifluoromethane	27. 2,2-Dichloropropane	54. Toluene
2. Chloromethane	28. Bromochloromethane	55. 2-Nitropropane
3. Vinyl chloride	29. Chloroform	56. Tetrachloroethene
4. Bromomethane	30. Carbon tetrachloride	57. 2-Bromo-1-chloropropane
5. Chloroethane	31. Tetrahydrofuran	58. 4-Methyl-2-pentanone
6. Trichlorofluoromethane	32. Methyl acrylate	59. <i>trans</i> -1,3-Dichloropropene
7. Diethyl ether	33. 1,1,1-Trichloroethane	60. 1,1,2-Trichloroethane
8. 1,1-Dichloroethene	34. Dibromofluoromethane	61. Ethyl methacrylate
9. Carbon disulfide	35. 1,1-Dichloropropene	62. Dibromochloromethane
10. 1,1,2-Trichloro-1,2,2-trifluoroethane	36. 2-Butanone	63. 1,3-Dichloropropane
11. Iodomethane	37. Benzene	64. 1,2-Dibromoethane
12. Allyl chloride	38. Propionitrile	65. 2-Hexanone
13. Methylene chloride	39. Methacrylonitrile	66. Chlorobenzene-D5
14. Acetone	40. 1,2-Dichloroethane-D4	67. Chlorobenzene
15. <i>trans</i> -1,2-Dichloroethene	41. Pentafluorobenzene	68. Ethylbenzene
16. Methyl-D3- <i>tert</i> -butyl-ether	42. <i>tert</i> -Amyl methyl ether	69. 1,1,1,2-Tetrachloroethane
17. Methyl acetate	43. 1,2-Dichloroethane	70. <i>m</i> -Xylene
18. Methyl <i>tert</i> -butyl ether	44. Isobutyl alcohol	71. <i>p</i> -Xylene
19. <i>tert</i> -Butyl alcohol	45. Trichloroethene	72. <i>o</i> -Xylene
20. Acetonitrile	46. 1,4-Difluorobenzene	73. Bromoform
21. Diisopropyl ether	47. Dibromomethane	74. Styrene
22. Chloroprene	48. 1,2-Dichloropropane	75. Isopropylbenzene
23. 1,1-Dichloroethane	49. Bromodichloromethane	76. 4-bromo-1-fluorobenzene
24. Acrylonitrile	50. Methyl methacrylate	77. Bromobenzene
25. Ethyl <i>tert</i> -butyl ether	51. <i>cis</i> -1,3-Dichloropropene	78. <i>cis</i> -1,4-Dichloro-2-butene
26. <i>cis</i> -1,2-Dichloroethene	52. 2-Chloroethyl vinyl ether	79. 1,4-Dichlorobutane
	53. Toluene-d8	80. <i>n</i> -Propylbenzene
		81. 1,1,2,2-Tetrachloroethane
		82. 2-Chlorotoluene
		83. 1,2,3-Trichloropropane
		84. 1,3,5-Trimethylbenzene
		85. <i>trans</i> -1,4-Dichloro-2-butene
		86. 4-Chlorotoluene
		87. <i>tert</i> -Butylbenzene
		88. Pentachloroethane
		89. 1,2,4-Trimethylbenzene
		90. <i>sec</i> -Butylbenzene
		91. <i>p</i> -Isopropyltoluene
		92. 1,3-Dichlorobenzene
		93. 1,4-Dichlorobenzene-D4
		94. 1,4-Dichlorobenzene
		95. <i>n</i> -Butylbenzene
		96. 1,2-Dichlorobenzene
		97. 1,2-Dibromo-3-chloropropane
		98. Nitrobenzene
		99. Hexachlorobutadiene
		100. 1,2,4-Trichlorobenzene
		101. Naphthalene
		102. 1,2,3-Trichlorobenzene
		*Carbon dioxide