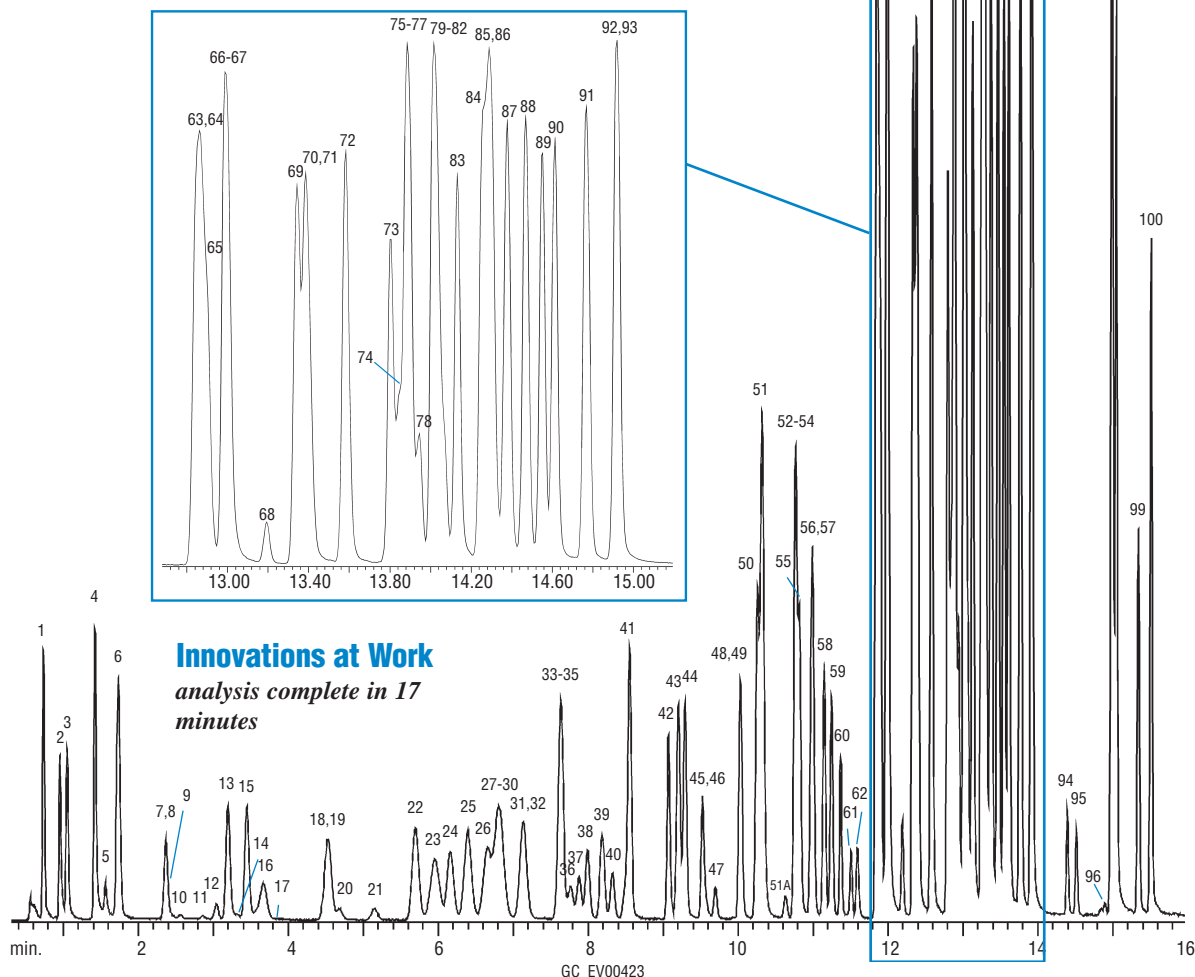


Volatile Organics EPA Method 8260B & Oxygenates Rtx®-VMS

- | | | |
|---|--|---|
| 1. dichlorodifluoromethane | 35. methacrylonitrile | 67. <i>p</i> -xylene |
| 2. chloromethane | 36. 1,2-dichloroethane-d4 | 68. 1-chloro-2-fluorobenzene |
| 3. vinyl chloride | 37. 1,2-dichloroethane | 69. <i>o</i> -xylene |
| 4. bromomethane | 38. isobutyl alcohol (400ppb) | 70. styrene |
| 5. chloroethane | 39. fluorobenzene | 71. bromoform |
| 6. trichlorofluoromethane | 40. isopropyl acetate | 72. isopropylbenzene |
| 7. 1,1-dichloroethene | 41. trichloroethene | 73. 4-bromo-1-fluorobenzene |
| 8. carbon disulfide (250ppb) | 42. dibromomethane | 74. <i>cis</i> -1,4-dichloro-2-butene |
| 9. Freon® 113 | 43. 1,2-dichloropropane | 75. bromobenzene |
| 10. iodomethane | 44. bromodichloromethane | 76. 1,4-dichlorobutane |
| 11. acrolein (250ppb) | 45. methyl methacrylate | 77. <i>n</i> -propylbenzene |
| 12. allyl chloride | 46. 1,4-dioxane (250ppb) | 78. 1,1,2,2-tetrachloroethane |
| 13. methylene chloride | 47. <i>n</i> -propyl acetate | 79. 2-chlorotoluene |
| 14. acetone | 48. 2-chloroethyl vinyl ether | 80. 1,2,3-trichloropropane |
| 15. <i>trans</i> -1,2-dichloroethene | 49. <i>cis</i> -1,3-dichloropropene | 81. 1,3,5-trimethylbenzene |
| 16. methyl <i>tert</i> -butyl ether | 50. toluene-d8 | 82. <i>trans</i> -1,4-dichloro-2-butene |
| 17. <i>tert</i> -butyl alcohol (250ppb) | 51. toluene | 83. 4-chlorotoluene |
| 18. chloroprene | 51A. 1,1-dichloro-2-propanone (250ppb) | 84. <i>tert</i> -butylbenzene |
| 19. 1,1-dichloroethane | 52. 4-methyl-2-pentanone (250ppb) | 85. pentachloroethane |
| 20. acrylonitrile | 53. tetrachloroethene | 86. 1,2,4-trimethylbenzene |
| 21. vinyl acetate | 54. <i>trans</i> -1,3-dichloropropene | 87. <i>sec</i> -butylbenzene |
| 22. <i>cis</i> -1,2-dichloroethene | 55. 2-bromo-1-chloropropane | 88. <i>p</i> -isopropyltoluene |
| 23. 2,2-dichloropropane | 56. 1,1,2-trichloroethane | 89. 1,3-dichlorobenzene |
| 24. bromochloromethane | 57. ethyl methacrylate | 90. 1,4-dichlorobenzene |
| 25. chloroform | 58. dibromochloromethane | 91. <i>n</i> -butylbenzene |
| 26. carbon tetrachloride | 59. 1,3-dichloropropane | 92. 1,2-dichlorobenzene-d4 |
| 27. tetrahydrofuran (250ppb) | 60. 1,2-dibromoethane | 93. 1,2-dichlorobenzene |
| 28. methyl acrylate | 61. <i>n</i> -butyl acetate | 94. 4-bromo-1-chlorobenzene |
| 29. ethyl acetate | 62. 2-hexanone (250ppb) | 95. 1,2-dibromo-3-chloropropane |
| 30. 1,1,1-trichloroethane | 63. chlorobenzene | 96. nitrobenzene (250ppb) |
| 31. 2-butanone (250ppb) | 64. ethylbenzene | 97. hexachlorobutadiene |
| 32. 1,1-dichloropropene | 65. 1,1,1,2-tetrachloroethane | 98. 1,2,4-trichlorobenzene |
| 33. propionitrile | 66. <i>m</i> -xylene | 99. naphthalene |
| 34. benzene | | 100. 1,2,3-trichlorobenzene |

60m, 0.45mm ID, 2.55µm Rtx®-VMS (cat.# 19909)
100ppb in 25 mL of RO Water (unless otherwise noted).
Ketones, Acetates & Alcohols in at 2.5 times.
Concentrator: Tekmar LSC-3000 Purge and Trap
Trap: Vocabr 3000
Purge: 11 min. @ 40mL/min.
Dry purge: 1 min. @ 40mL/min. (MCS bypassed using Silcosteel tubing)
Desorb preheat: 245°C, Flow 10mL/min.
Desorb: 250°C for 2 min.
Bake: 260°C for 8 min.
Interface: direct using 0.32mm ID Siltek transfer line
Oven temp.: 40°C (hold 7 min.) to 50°C @ 9°C/min. to 110°C @ 27°C/min. (hold 1 min.) to 225°C @ 40°C/min. (hold 3 min.)
Carrier gas: helium @ ~10mL/min. constant pressure
Adjust dichlorodifluoromethane to a retention time of 1.72 min. @ 40°C.
GC: HP 5890 series II
Detector: HP 5971A MSD
Restek's EZvent 3000 @ 1:10 split to source.
Scan Range: 35 to 300 AMU



Innovations at Work
analysis complete in 17 minutes