

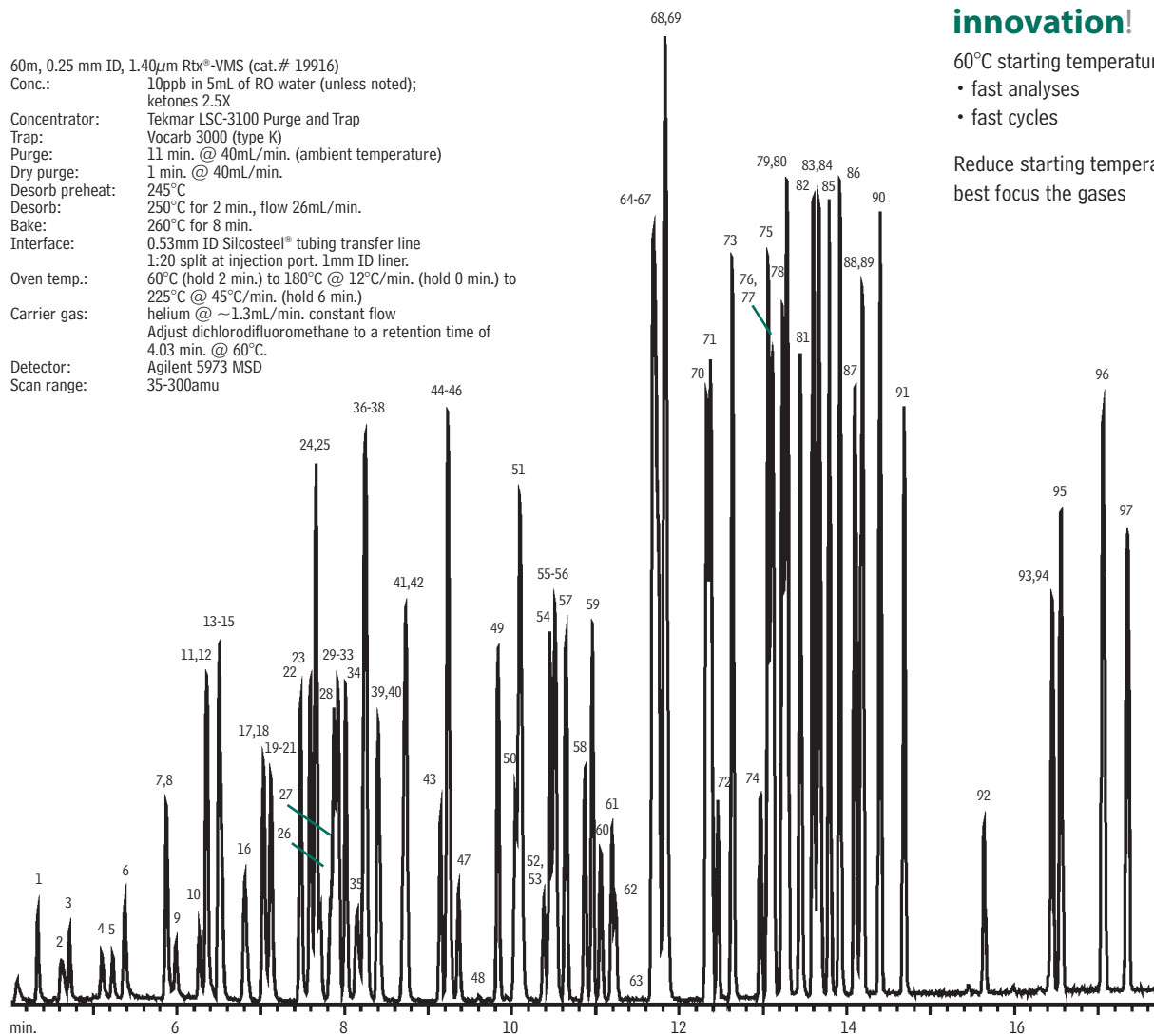
Volatile Organics
US EPA Method 8260B
Rtx®-VMS

restek
innovation!

60m, 0.25 mm ID, 1.40µm Rtx®-VMS (cat.# 19916)
 Conc.: 10ppb in 5mL of RO water (unless noted);
 ketones 2.5X
 Concentrator: Tekmar LSC-3100 Purge and Trap
 Trap: Vocarb 3000 (type K)
 Purge: 11 min. @ 40mL/min. (ambient temperature)
 Dry purge: 1 min. @ 40mL/min.
 Desorb preheat: 245°C
 Desorb: 250°C for 2 min., flow 26mL/min.
 Bake: 260°C for 8 min.
 Interface: 0.53mm ID Silcosteel® tubing transfer line
 1:20 split at injection port. 1mm ID liner.
 Oven temp.: 60°C (hold 2 min.) to 180°C @ 12°C/min. (hold 0 min.) to
 225°C @ 45°C/min. (hold 6 min.)
 Carrier gas: helium @ ~1.3mL/min. constant flow
 Adjust dichlorodifluoromethane to a retention time of
 4.03 min. @ 60°C.
 Detector: Agilent 5973 MSD
 Scan range: 35-300amu

60°C starting temperature
 • fast analyses
 • fast cycles

Reduce starting temperature to
 best focus the gases



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|---|-------------------------------------|---------------------------------------|---------------------------------|
| 1. dichlorodifluoromethane | 26. ethyl acetate | 51. toluene | 76. 1,1,2,2-tetrachloroethane |
| 2. chloromethane | 27. methyl acrylate | 52. 4-methyl-2-pentanone | 77. bromobenzene |
| 3. vinyl chloride | 28. propargyl alcohol (500ppb) | 53. pyridine (250ppb) | 78. 1,3,5-trimethylbenzene |
| 4. bromomethane | 29. dibromofluoromethane (SMC) | 54. <i>trans</i> -1,3-dichloropropene | 79. 2-chlorotoluene |
| 5. chloroethane | 30. tetrahydrofuran | 55. ethyl methacrylate | 80. 1,2,3-trichloropropane |
| 6. trichlorofluoromethane | 31. carbon tetrachloride | 56. tetrachloroethene | 81. 4-chlorotoluene |
| 7. ethanol (2500ppb) | 32. 2-butanone | 57. 1,1,2-trichloroethane | 82. <i>tert</i> -butylbenzene |
| 8. 1,1-dichloroethene | 33. 1,1,1-trichloroethane | 58. dibromochloromethane | 83. 1,2,4-trimethylbenzene |
| 9. carbon disulfide (40ppb) | 34. 1,1-dichloropropene | 59. 1,3-dichloropropane | 84. pentachloroethane |
| 10. allyl chloride | 35. pentafluorobenzene (IS) | 60. <i>n</i> -butyl acetate | 85. <i>sec</i> -butylbenzene |
| 11. methylene chloride | 36. <i>tert</i> -amyl methyl ether | 61. 1,2-dibromoethane | 86. <i>p</i> -isopropyltoluene |
| 12. acetone | 37. benzene | 62. 2-hexanone | 87. 1,3-dichlorobenzene |
| 13. <i>trans</i> -1,2-dichloroethene | 38. isobutyl alcohol (500ppb) | 63. 2-picoline (250ppb) | 88. 1,4-dichlorobenzene-d4 (IS) |
| 14. <i>tert</i> -butyl alcohol (100ppb) | 39. 1,2-dichloroethane | 64. ethylbenzene | 89. 1,4-dichlorobenzene |
| 15. methyl <i>tert</i> -butyl ether | 40. isopropyl acetate | 65. chlorobenzene-D5 (IS) | 90. <i>n</i> -butylbenzene |
| 16. diisopropyl ether | 41. 1,4-difluorobenzene (SMC) | 66. chlorobenzene | 91. 1,2-dichlorobenzene |
| 17. 1,1-dichloroethane | 42. trichloroethene | 67. 1,1,1,2-tetrachloroethane | 92. 1,2-dibromo-3-chloropropane |
| 18. acrylonitrile | 43. dibromomethane | 68. <i>m</i> -xylene | 93. nitrobenzene (250ppb) |
| 19. vinyl acetate* | 44. bromodichloromethane | 69. <i>p</i> -xylene | 94. hexachlorobutadiene |
| 20. allyl alcohol (250ppb) | 45. 1,2-dichloropropane | 70. <i>o</i> -xylene | 95. 1,2,4-trichlorobenzene |
| 21. ethyl- <i>tert</i> -butyl ether* | 46. methyl methacrylate | 71. styrene | 96. naphthalene |
| 22. <i>cis</i> -1,2-dichloroethene | 47. <i>n</i> -propyl acetate | 72. bromoform | 97. 1,2,3-trichlorobenzene |
| 23. 2,2-dichloropropane | 48. 2-chloroethanol (2500ppb) | 73. isopropylbenzene | |
| 24. bromochloromethane | 49. <i>cis</i> -1,3-dichloropropene | 74. 4-bromo-1-fluorobenzene (SMC) | |
| 25. chloroform | 50. toluene-d8 (SMC) | 75. <i>n</i> -propylbenzene | |

*Peaks 19 & 21 share an ion (43).