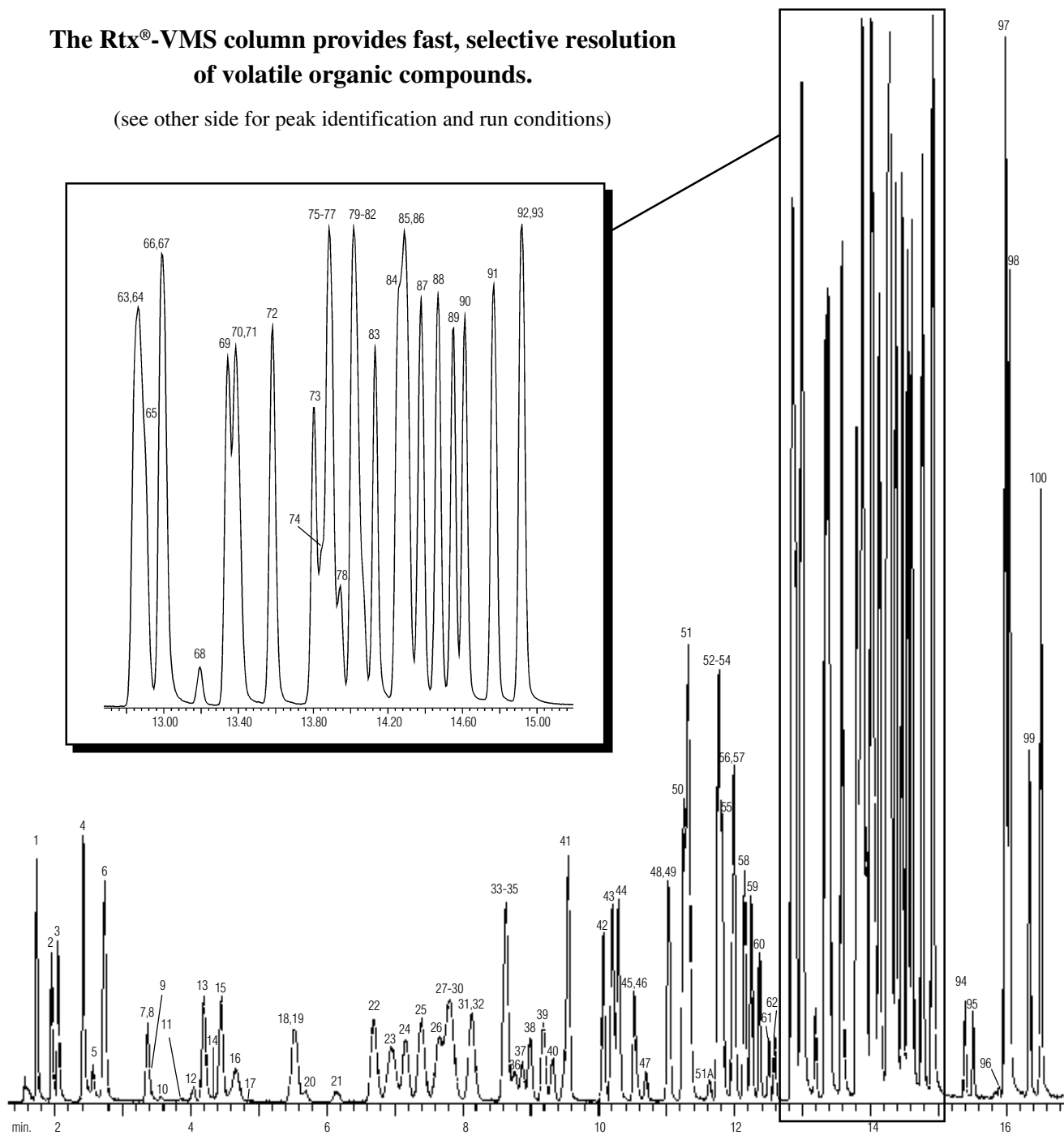


# Rtx<sup>®</sup>-VMS Column

(60m, 0.45mm ID, 2.55µm df—cat.# 19909)

**The Rtx<sup>®</sup>-VMS column provides fast, selective resolution of volatile organic compounds.**

(see other side for peak identification and run conditions)



## Peak Identification

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

### Conditions

#### Concentration:

100ppb in 25mL of RO water (unless otherwise noted).  
Ketones, acetates, and alcohols in at 2.5 times.

#### Purge & Trap:

**Concentrator:** Tekmar® LSC-3000

**Trap:** Vocarb™ 3000; **Purge:** 11 min. @ 40mL/min.

**Dry purge:** 1 min. @ 40mL/min. [MCS by-passed with  
Silcosteel® tubing]

**Desorb preheat:** 245°C; **Desorb:** 250°C for 2 min.

**Bake:** 260°C for 8 min.; **Interface:** direct

**Transfer line:** 0.32mm ID Siltek™ tubing

**GC:** Agilent 5890 Series II

#### Oven Program:

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.)

#### Detectors:

Agilent 5971A MS; scan range: 35 to 300 AMU.

#### Flow Rate:

He @ 10.5mL/min., constant pressure

**Call Technical Service at 800-356-1688 or 814-353-1300, ext. 4 (or your local Restek representative)  
if you have any questions about this product or any other Restek product.**



#130-01 [001]  
Rev. date: 5/01

**Restek USA:** 110 Benner Circle, Bellefonte, PA 16823

phone: (800) 356-1688 or (814) 353-1300 • fax: (814) 353-1309; [www.restekcorp.com](http://www.restekcorp.com)

**Restek GmbH:** phone: (49) 06172 2797 0 • email: [RESTEK-GMBH@t-online.de](mailto:RESTEK-GMBH@t-online.de)

**Restek France:** phone: (33) 01 60 78 32 10 • email: [restekfr@club-internet.fr](mailto:restekfr@club-internet.fr)

**Thames Restek UK Ltd.:** phone: (44) 01753 624111 • email: [Sales@Thamesrestek.co.uk](mailto:Sales@Thamesrestek.co.uk)

**Thames Restek Scotland Ltd.:** phone: 0870 241 1247 • email: [Sales@Thamesrestek.co.uk](mailto:Sales@Thamesrestek.co.uk)

**Restek Ireland:** phone: (44)2 890 814 576 • email: [dmannusrestek@compuserve.com](mailto:dmannusrestek@compuserve.com)