

# Semivolatiles

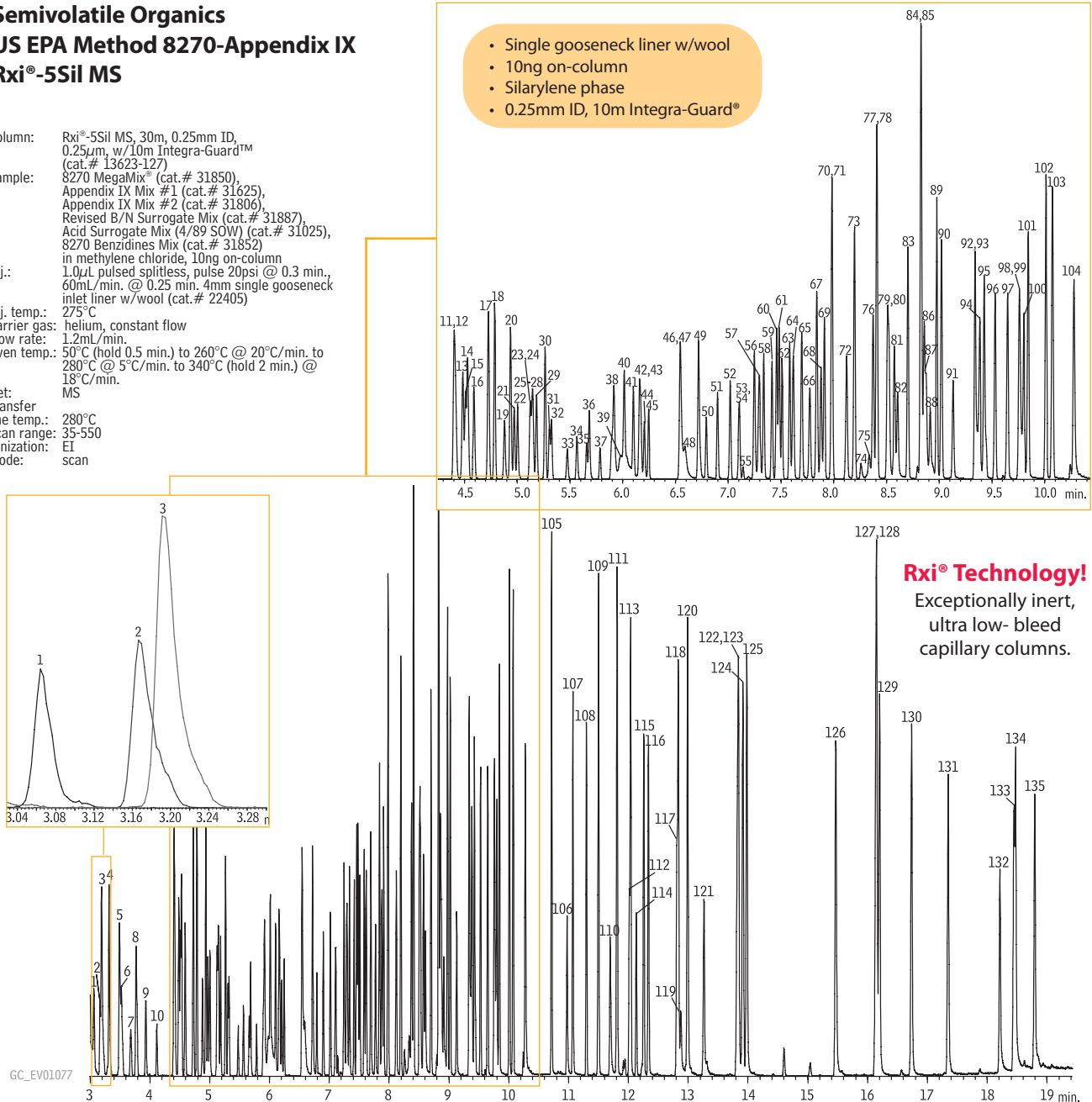
## Semivolatile Organics

### US EPA Method 8270-Appendix IX

#### Rxi®-5Sil MS

Column: Rxi®-5Sil MS, 30m, 0.25mm ID, 0.25µm, w/10m Integra-Guard™ (cat.# 13623-127)  
 Sample: 8270 MegaMix® (cat.# 31850), Appendix IX Mix #1 (cat.# 31625), Appendix IX Mix #2 (cat.# 31806), Revised B/N Surrogate Mix (cat.# 31887), Acid Surrogate Mix (4/89 SOW) (cat.# 31025), 8270 Benzidines Mix (cat.# 31852) in methylene chloride, 10ng on-column  
 Inj.: 1.0µL pulsed splitless, pulse 20psi @ 0.3 min., 60mL/min. @ 0.25 min. 4mm single gooseneck inlet liner w/wool (cat.# 22405)  
 Inj. temp.: 275°C  
 Carrier gas: helium, constant flow  
 Flow rate: 1.2mL/min.  
 Oven temp.: 50°C (hold 0.5 min.) to 260°C @ 20°C/min. to 280°C @ 5°C/min. to 340°C (hold 2 min.) @ 18°C/min.  
 Det: MS  
 Transfer line temp.: 280°C  
 Scan range: 35-550  
 Ionization: EI  
 Mode: scan

- Single gooseneck liner w/wool
- 10ng on-column
- Silarylene phase
- 0.25mm ID, 10m Integra-Guard®



**Rxi® Technology!**  
 Exceptionally inert,  
 ultra low- bleed  
 capillary columns.

- |                                 |                                |                                |                                 |                                |                                      |
|---------------------------------|--------------------------------|--------------------------------|---------------------------------|--------------------------------|--------------------------------------|
| 1. 1,4-dioxane                  | 24. 3-methylphenol             | 47. caprolactam                | 70. acenaphthylene              | 93. 1,3,5-trinitrobenzene      | 116. dichlorobenzilate               |
| 2. N-nitrosodimethylamine       | 25. acetophenone               | 48. 1,4-phenylenediamine       | 71. 2,3-dinitrobenzene          | 94. phenacetin                 | 117. 3,3'-dimethylbenzidine          |
| 3. pyridine                     | 26. N-nitroso-di-n-propylamine | 49. 4-chloro-3-methylphenol    | 72. 3-nitroaniline              | 95. 4-bromophenyl phenyl ether | 118. benzyl butyl phthalate          |
| 4. ethyl methacrylate           | 27. nitrosopyrrolidine         | 50. isosafrole                 | 73. acenaphthene                | 96. hexachlorobenzene          | 119. Kepone                          |
| 5. 2-picoline                   | 28. 4-nitrosomorpholine        | 51. 2-methylnaphthalene        | 74. 2,4-dinitrophenol           | 97. atrazine                   | 120. bis(2-ethylhexyl)adipate        |
| 6. N-nitrosomethyl ethylamine   | 29. o-toluidine                | 52. 1-methylnaphthalene        | 75. 4-nitrophenol               | 98. 4-aminobiphenyl            | 121. 2-acetylaminofluorene           |
| 7. methyl methanesulfonate      | 30. hexachloroethane           | 53. hexachlorocyclopentadiene  | 76. pentachlorobenzene          | 99. pentachlorophenol          | 122. 3,3'-dichlorobenzidine          |
| 8. 2-fluorophenol               | 31. nitrobenzene-d5 (SS)       | 54. 1,2,4,5-tetrachlorobenzene | 77. dibenzofuran                | 100. pentachloronitrobenzene   | 123. chrysene                        |
| 9. N-nitrosodiethylamine        | 32. nitrobenzene               | 55. isosafrole                 | 78. 2,4-dinitrotoluene          | 101. propylzamide              | 124. benzo(a)anthracene              |
| 10. ethyl methanesulfonate      | 33. N-nitrosopiperidine        | 56. 2,4,6-trichlorophenol      | 79. 1-naphthalamine             | 102. phenanthrene              | 125. bis(2-ethylhexyl)phthalate      |
| 11. benzaldehyde                | 34. isophorone                 | 57. 2,4,5-trichlorophenol      | 80. 2,3,4,6-tetrachlorophenol   | 103. anthracene                | 126. di-n-octyl phthalate            |
| 12. phenol                      | 35. 2-nitrophenol              | 58. 2-fluorobiphenyl (SS)      | 81. 2,3,5,6-tetrachlorophenol   | 104. carbazole                 | 127. benzo(b)fluoranthene            |
| 13. aniline                     | 36. 2,4-dimethylphenol         | 59. safrole                    | 82. 2-naphthylamine             | 105. di-n-butylphthalate       | 128. 7,12-dimethylbenzo(a)anthracene |
| 14. bis(2-chloroethyl)ether     | 37. bis(2-chloroethoxy)methane | 60. biphenyl                   | 83. diethyl phthalate           | 106. 4-nitroquinoline-1-oxide  | 129. benzo(k)fluoranthene            |
| 15. pentachloroethane           | 38. 2,4-dichlorophenol         | 61. 2-chloronaphthalene        | 84. fluorene                    | 107. methapyrilone             | 130. benzo(a)pyrene                  |
| 16. 2-chlorophenol              | 39. α,α-dimethylphenylamine    | 62. 1-chloronaphthalene        | 85. 4-chlorophenyl phenyl ether | 108. isodrin                   | 131. 3-methylcholanthrene            |
| 17. 1,3-dichlorobenzene         | 40. 1,2,4-trichlorobenzene     | 63. diphenyl ether             | 86. 2-methyl-5-nitroaniline     | 109. fluoranthene              | 132. dibenzo(a,j)acridine            |
| 18. 1,4-dichlorobenzene         | 41. naphthalene                | 64. 2-nitroaniline             | 87. 4-nitroaniline              | 110. benzidine                 | 133. indeno(1,2,3-cd)pyrene          |
| 19. benzyl alcohol              | 42. 2,6-dichlorophenol         | 65. 1,4-naphthoquinone         | 88. 4,6-dinitro-2-methylphenol  | 111. pyrene                    | 134. dibenzo(a,h)anthracene          |
| 20. 1,2-dichlorobenzene         | 43. 4-chloroaniline            | 66. 1,4-dinitrobenzene         | 89. diphenylamine               | 112. Aramite (isomer)          | 135. benzo(ghi)perylene              |
| 21. 2-methylphenol              | 44. hexachloropropene          | 67. dimethylphthalate          | 90. azobenzene                  | 113. p-terphenyl-d14 (SS)      |                                      |
| 22. bis(2-chloroisopropyl)ether | 45. hexachlorobutadiene        | 68. 1,3-dinitrobenzene         | 91. 2,4,6-tribromophenol (SS)   | 114. Aramite (isomer)          |                                      |
| 23. 4-methylphenol              | 46. N-nitroso-n-butylamine     | 69. 2,6-dinitrotoluene         | 92. diallate                    | 115. dimethylaminoazobenzene   |                                      |