

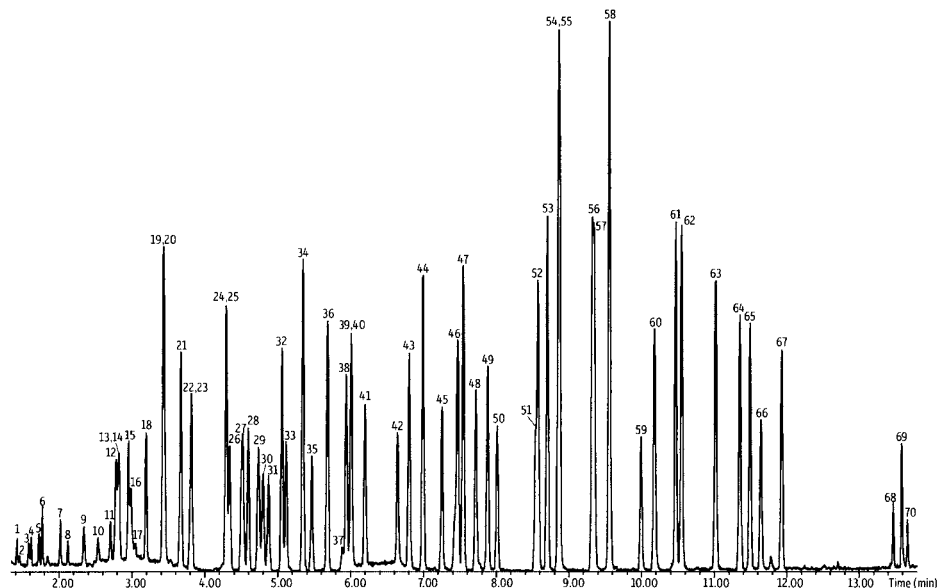
EV06 大気汚染物質 Air Pollutants SH-Rxi™-624Sii MS

低ブリード

30 m, 0.32 mm ID, 1.80 μm (P/N: 227-36077-01)

| Peaks | t _R (min) | Peaks | t _R (min) | Peaks | t _R (min) |
|---|----------------------|---------------------------------------|----------------------|-------------------------------|----------------------|
| 1. Propylene | 1.42 | 25. <i>cis</i> -1,2-Dichloroethene | 4.29 | 49. Dibromochloromethane | 7.88 |
| 2. Dichlorodifluoromethane (Freon® 12) | 1.45 | 26. Ethyl acetate | 4.34 | 50. 1,2-Dibromoethane | 8.01 |
| 3. 1,2-Dichlorotetrafluoroethane (Freon® 114) | 1.58 | 27. Bromochloromethane (IS) | 4.50 | 51. Chlorobenzene-d5 (IS) | 8.54 |
| 4. Chloromethane | 1.61 | 28. Tetrahydrofuran | 4.52 | 52. Chlorobenzene | 8.58 |
| 5. Vinyl chloride | 1.73 | 29. Chloroform | 4.60 | 53. Ethylbenzene | 8.71 |
| 6. 1,3-Butadiene | 1.77 | 30. 1,1,1-Trichloroethane | 4.74 | 54. <i>m</i> -Xylene | 8.87 |
| 7. Bromomethane | 2.02 | 31. Cyclohexane | 4.80 | 55. <i>p</i> -Xylene | 8.87 |
| 8. Chloroethane | 2.12 | 32. Carbon tetrachloride | 4.88 | 56. <i>o</i> -Xylene | 9.32 |
| 9. Trichlorofluoromethane (Freon® 11) | 2.34 | 33. Benzene | 5.06 | 57. Styrene | 9.35 |
| 10. Ethanol | 2.53 | 34. 1,2-Dichloroethane | 5.12 | 58. Bromoform | 9.56 |
| 11. Acrolein | 2.71 | 35. Heptane | 5.35 | 59. 4-Bromofluorobenzene* | 9.99 |
| 12. 1,1-Dichloroethene | 2.78 | 36. 1,4-Difluorobenzene (IS) | 5.47 | 60. 1,1,2,2-Tetrachloroethane | 10.18 |
| 13. 1,1,2-Trichlorotrifluoroethane (Freon® 113) | 2.80 | 37. Trichloroethylene | 5.69 | 61. 4-Ethyltoluene | 10.47 |
| 14. Acetone | 2.82 | 38. 1,2-Dichloropropane | 5.94 | 62. 1,3,5-Trimethylbenzene | 10.55 |
| 15. Carbon disulfide | 2.96 | 39. Methyl methacrylate | 6.01 | 63. 1,2,4-Trimethylbenzene | 11.02 |
| 16. Isopropyl alcohol | 2.98 | 40. 1,4-Dioxane | 6.02 | 64. 1,3-Dichlorobenzene | 11.35 |
| 17. Acetonitrile (contaminant) | 3.05 | 41. Bromadichloromethane | 6.20 | 65. 1,4-Dichlorobenzene | 11.49 |
| 18. Methylene chloride | 3.20 | 42. <i>cis</i> -1,3-Dichloropropene | 6.64 | 66. Benzyl chloride | 11.65 |
| 19. <i>trans</i> -1,2-Dichloroethene | 3.43 | 43. 4-Methyl-2-pentanone (MIBK) | 6.80 | 67. 1,2-Dichlorobenzene | 11.93 |
| 20. Methyl <i>tert</i> -butyl ether (MTBE) | 3.44 | 44. Toluene | 6.99 | 68. 1,2,4-Trichlorobenzene | 13.47 |
| 21. Hexane | 3.67 | 45. <i>trans</i> -1,3-Dichloropropene | 7.26 | 69. Hexachlorobutadiene | 13.59 |
| 22. 1,1-Dichloroethane | 3.81 | 46. 1,1,2-Trichloroethane | 7.47 | 70. Naphthalene | 13.67 |
| 23. Vinyl acetate | 3.82 | 47. Tetrachloroethene | 7.55 | | |
| 24. 2-Butanone (MEK) | 4.29 | 48. 2-Hexanone (MBK) | 7.72 | | |

*Tuning standard



Column SH-Rxi™-624Sii MS, 30m, 0.32mm ID, 1.80μm (P/N:227-36077-01)
Diluent: Nitrogen
Conc.: 10.0 ppbv 200 cc injection
Injection Direct
Oven
Oven Temp: 32 °C (hold 1 min) to 150 °C at 11 °C/min to 230 °C at 33 °C/min
Carrier Gas He, constant flow
Flow Rate: 2.0 mL/min
Linear Velocity: 51 cm/sec @ 32 °C
Detector MS
Mode: Scan
Transfer Line
Temp.: 230 °C
Analyzer Type: Quadrupole
Source Temp.: 230 °C
Quad Temp.: 150 °C
Electron Energy: 69.9 eV

Solvent Delay
Time: 1.0 min
Tune Type: BFB
Ionization Mode: EI
Scan Range: 35 - 250 amu
Scan Rate: 3.32 scans/sec
Preconcentrator Nutech 8900DS
Trap 1 Settings
Type/Sorbent: Glass Beads
Cooling temp: -155 °C
Preheat temp: 5 °C
Preheat time: 0 sec
Desorb temp: 20 °C
Desorb flow: 5 mL/min
Desorb time: 360 sec
Bakeout temp: 200 °C
Flush flow: 120 mL/min
Flush time: 60 sec
Sweep flow: 120 mL/min
Sweep time: 60 sec
Trap 2 Settings
Type/Sorbent: Tenax®

Cooling temp: -35 °C
Desorb temp: 190 °C
Desorb time: 30 sec
Bakeout temp: 200 °C
Bakeout time: 10 sec
Cryofocuser
Cooling temp: -160 °C
Inject time: 140 sec
Internal Standard
Purge flow: 100 mL/min
Purge time: 6 sec
Vol.: 20 mL
ISTD flow: 100 mL/min
Standard
Size: 200 mL
Purge flow: 100 mL/min
Purge time: 6 sec
Sample flow: 100 mL/min
Acknowledgement Nutech

