

EPA Air Analysis Compendium Method TO-14 Standard

Column: DB-1
 60 m x 0.32 mm I.D., 1.0 µm
P/N: 123-1063
Carrier: Helium at 25 cm/sec
 measured off of CO₂ at 35°C
 constant flow mode
Oven: 35°C for 5 min
 35-120°C at 5°/min
 120-220°C at 30°/min
 220°C for 5 min
Injector: Entech 7100 cryogenic
 sample preconcentrator
 400 mL of a 10 ppbV TO-14 standard
 and 100 mL of a 20 ppbV IS/SS
 standard
Detector: MSD, full scan of m/z 40-250

*Chromatogram courtesy of Dan Cardin at
 Entech Instruments, Inc.
 (Simi Valley, CA; www.entechnst.com)*

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| 1. CO ₂ | 24. <i>trans</i> -1,3-Dichloropropene |
| 2. Freon 12 (Dichlorodifluoromethane) | 25. 1,1,2-Trichloroethane |
| 3. Chloromethane | 26. Toluene-d ₈ (SS) |
| 4. Freon 114 (1,2-Dichloro-1,1,2,2-tetrafluoroethane) | 27. Toluene |
| 5. Vinyl chloride | 28. 1,2-Dibromoethane |
| 6. Bromomethane | 29. Tetrachloroethene |
| 7. Chloroethane | 30. Chlorobenzene-d ₅ (SS) |
| 8. Freon 11 (Trichlorofluoromethane) | 31. Chlorobenzene |
| 9. 1,1-Dichloroethene | 32. Ethylbenzene |
| 10. Methylene chloride | 33. <i>m</i> -Xylene |
| 11. Freon 113 (1,1,2-Trichloro-1,2,2-trifluoroethane) | 34. <i>p</i> -Xylene |
| 12. 1,1-Dichloroethane | 35. Styrene |
| 13. <i>cis</i> -1,2-Dichloroethene | 36. 1,1,2,2-Tetrachloroethane |
| 14. Bromochloromethane (IS) | 37. <i>o</i> -Xylene |
| 15. Chloroform | 38. 4-Bromofluorobenzene (SS) |
| 16. 1,2-Dichloroethane | 39. 1,3,5-Trimethylbenzene |
| 17. 1,1,1-Trichloroethane | 40. 1,2,4-Trimethylbenzene |
| 18. Benzene | 41. 1,3-Dichlorobenzene |
| 19. Carbon tetrachloride | 42. 1,2-Dichlorobenzene |
| 20. 1,4-Difluorobenzene (IS) | 43. 1,4-Dichlorobenzene |
| 21. 1,2-Dichloropropane | 44. 1,2,4-Trichlorobenzene |
| 22. Trichloroethene | 45. 1,2-Dibromobenzene (IS) |
| 23. <i>cis</i> -1,3-Dichloropropene | 46. Hexachloro-1,3-butadiene |

