

Volatile Sulfur Compounds

Column: DB-1

30 m x 0.32 mm I.D., 5.0 µm

P/N: 123-1035

Carrier: Helium at 23 cm/sec (H₂S at 50°C)

Oven: 50°C for 4 min, 50-120°C at 20°/min,

120°C for 4 min, 120-220°C at 25°/min, 220°C for 2.5 min

Injector: Split 1:10, 200°C, 600 µL of sulfur gas standard,

3 ppmV each component

Detector: PFPD (OI Analytical), 220°C

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|-----------------------------|---------------------------|
| 1. Hydrogen sulfide | 13. Diethyl sulfide |
| 2. Carbonyl sulfide | 14. 1-Butanethiol |
| 3. Methyl mercaptan | 15. Methyl disulfide |
| 4. Ethyl mercaptan | 16. 2-Methylthiophene |
| 5. Dimethyl sulfide | 17. 3-Methylthiophene |
| 6. Carbon disulfide | 18. Tetrahydrothiophene |
| 7. 2-Propanethiol | 19. 1-Pentanethiol |
| 8. 2-Methyl-2-propanethiol | 20. 2-Ethylthiophene |
| 9. 1-Propanethiol | 21. 2,5-Dimethylthiophene |
| 10. Ethyl methyl sulfide | 22. 1-Hexanethiol |
| 11. Thiophene | 23. Ethyl disulfide |
| 12. 2-Methyl-1-propanethiol | 24. 1-Heptanethiol |

*Agilent Technologies wishes to thank Air
Toxics, Ltd. (Folsom, CA) for providing
the standard mixture shown in this
chromatogram.*

