

## Volatiles Analysis Using Static Headspace Sampling

### Column: DB-VRX

60 m x 0.32 mm I.D., 1.8 µm

### J&W P/N: 123-1564

Carrier: Helium at 50 cm/sec,  
measured at 35°C

Oven: 35°C for 8 min  
35-220°C at 10°/min  
220°C for 4 min

Injector: Split 1:20, 200°C

Detector: ECD, 300°C

Nitrogen makeup gas at 90 mL/min

### Headspace analyzer conditions:

Tekmar 7000

Vial volume: 22.5 mL

Water volume: 16.5 mL

Platen temperature: 75°C

Sample equilibration time: 25.0 min

Loop fill time: 0.03 min

Loop equilibration time: 0.1 min

Loop size: 1.0 mL

Injection time: 3.0 min

1. 1,1-Dichloroethene
2. *trans*-1,2-Dichloroethene
3. 1,1-Dichloroethane
4. *cis*-1,2-Dichloroethene
5. Bromochloromethane
6. Chloroform
7. 2,2-Dichloropropane
8. 1,2-Dichloroethane
9. 1,1,1-Trichloroethane

10. 1,1-Dichloropropene
11. Carbon tetrachloride
12. Dibromomethane
13. 1,2-Dichloropropane
14. Trichloroethene
15. Bromodichloromethane
16. *cis*-1,3-Dichloropropene
17. *trans*-1,3-Dichloropropene
18. 1,1,2-Trichloroethane
19. 1,3-Dichloropropane
20. Dibromochloromethane
21. 1,2-Dibromoethane
22. Tetrachloroethene
23. 1,1,1,2-Tetrachloroethane
24. Bromoform

25. 1,1,2,2-Tetrachloroethane
26. 1,2,3-Trichloropropane
27. Bromobenzene
28. 1,3-Dichlorobenzene
29. 1,4-Dichlorobenzene
30. 1,2-Dichlorobenzene
31. 1,2-Dibromo-3-chloropropane
32. 1,2,4-Trichlorobenzene
33. Hexachlorobutadiene
34. 1,2,3-Trichlorobenzene

