

Volatile halogenated hydrocarbons $C_2 - C_3$

Separation of volatile halogenated hydrocarbons on a fused silica capillary column

Application Note

Environmental

Authors

Agilent Technologies, Inc.

Introduction

Gas chromatography using an Agilent CP-Sil 5 CB column separates 26 volatile halogen hydrocarbons in 25 minutes.



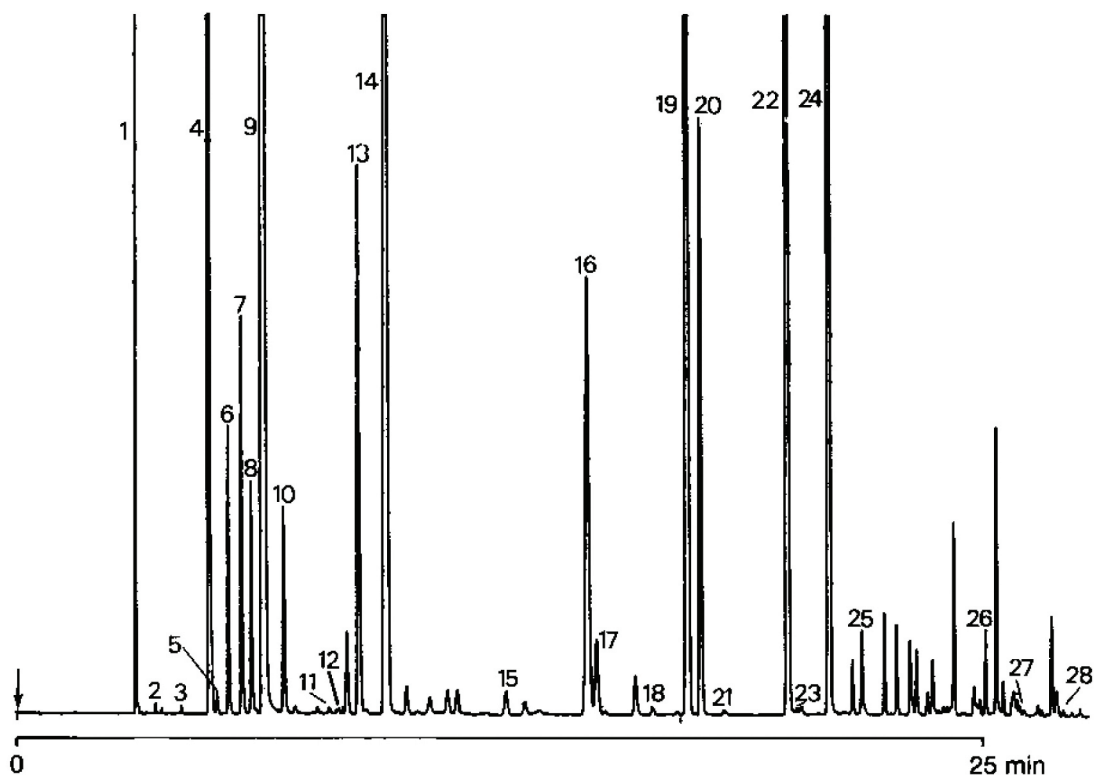
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Conditions

Technique : GC-capillary
Column : Agilent CP-Sil 5 CB, 0.32 mm x 50 m fused silica
WCOT CP-Sil 5 CB (1.2 µm) (Part no. CP7770)
Temperature : 40 °C (15 min) → 240 °C, 10 °C/min
Carrier Gas : H₂, 40 kPa (0.4 bar, 5.8 psi), 30 cm/s
Injector : Splitter, 25 mL/min
T = 250 °C
Detector : FID, 4 x 10⁻¹² Afs
T = 250 °C
Sample Size : 0.3 µL

Peak identification

1. propene	15. 1,2-dichloroethane
2. methylchloride	16. 3,3-dichloropropene
3. ethylchloride	17. benzene
4. 2-chloro-1-propene	18. 1,1-dichloropropane
5. 2-propanol	19. 1,2-dichloropropane
6. isopropylchloride	20. 2,3-dichloropropene
7. cis-1-chloro-1-propene	21. epichlorohydrin
8. trans-1-chloro-1-propene	22. cis-1,3-dichloropropene
9. allylchloride	23. 2-chloro-2-propene-1-ol
10. n-propylchloride	24. trans-1,3-dichloropropene
11. 1,1-dichloroethane	25. 1,3-dichloropropane
12. 2,3-butanedione	26. chlorobenzene
13. 1,5-hexadiene	27. 1,3-dichlorohydrin
14. 2-butanol	28. 2,3-dichlorohydrin + chlorohydrin



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