



Halogenated hydrocarbons $C_1 - C_6$

Separation of volatile halogenated hydrocarbons on a wide-bore fused silica column

Application Note

Materials Testing & Research

Authors

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Introduction

Gas chromatography using an Agilent CP-Sil 5 CB column separates 11 C_1 to C_6 volatile halogenated hydrocarbons in nine minutes.



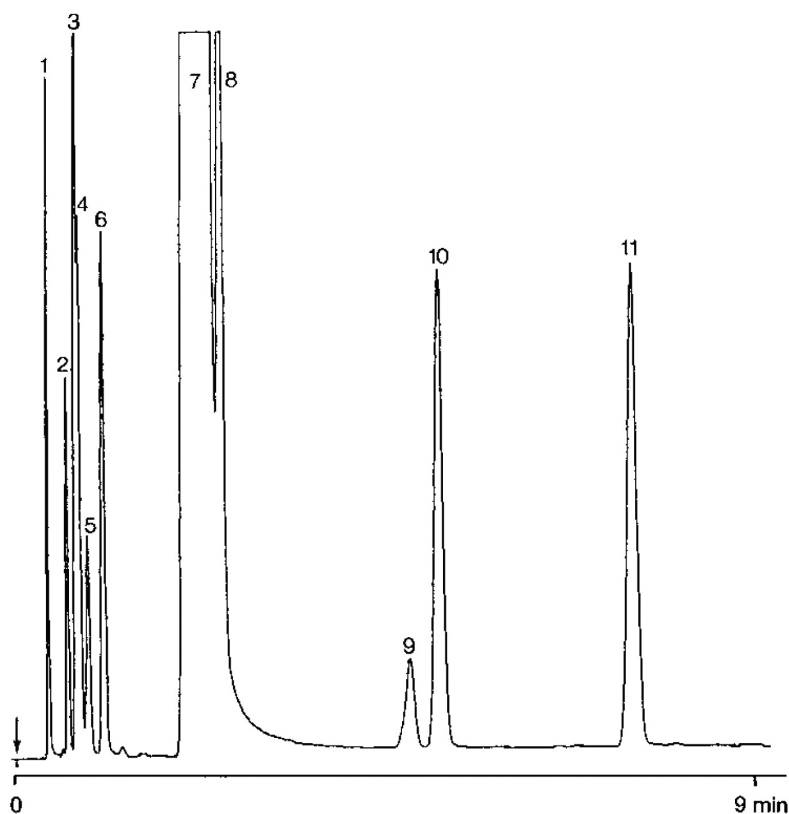
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Conditions

Technique : GC-capillary
Column : Agilent CP-Sil 5 CB, 0.53 mm x 10 m fused silica
WCOT CP-Sil 5 CB (5.0 μ m) (Part no. CP7645)
Temperature : 50 °C \rightarrow 200 °C, 10 °C/min
Carrier Gas : N₂, 10 kPa (0.1 bar), 52 cm/s
Injector : direct
T = 250 °C
Detector : FID, 100 x 10⁻¹² Afs
T = 275 °C
Sample Size : 0.2 μ L
Solvent Sample : tetrachloroethene (perchloroethylene)

Peak identification

1. dichloromethane
2. trichloromethane
3. 1,2-dichloroethane
4. 1,1,1-trichloroethane
5. tetrachloroethene
6. trichloroethene
7. tetrachloroethene
8. chlorobenzene
9. 1,4-dichlorobenzene
10. 1,2-dichlorobenzene
11. 1,2,4-trichlorobenzene



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