

Halogenated hydrocarbons

Separation of volatile halogenated hydrocarbons in water on a 100 μm fused silica capillary column

Application Note

Environmental

Authors

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Introduction

Gas chromatography using an Agilent CP-Sil 43 CB column separates five halogenated hydrocarbons in a water sample in two minutes.



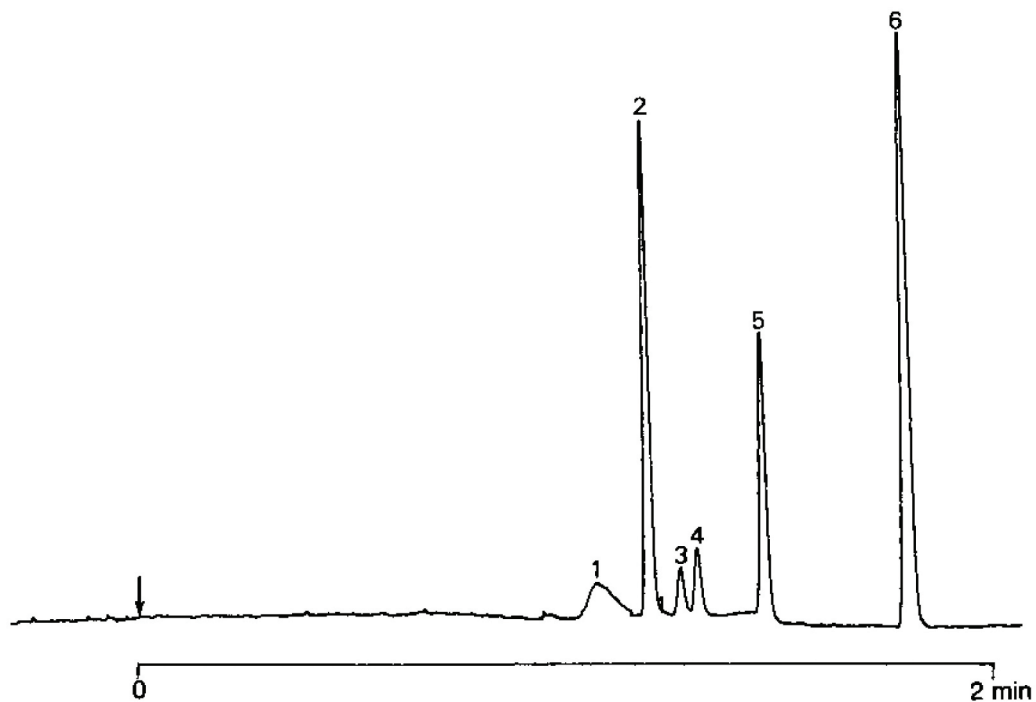
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Conditions

Technique : GC-capillary
Column : Agilent CP-Sil 43 CB, 0.10 mm x 10 m fused silica
WCOT CP-Sil 43 CB (0.2 µm) (Part no. CP7785)
Temperature : 80 °C
Carrier Gas : N₂, 150 kPa (1.5 bar, 22 psi), 17.2 cm/s
Injector : Splitter, 100 mL/min
T = 250 °C
Detector : FID, 5 x 10⁻¹² Afs
T = 310 °C
Sample Size : 0.4 µL
Concentration Range : 0.1 %/component in water
Solvent Sample : water

Peak identification

1. water
2. dichloromethane
3. tetrachloromethane
4. 1,1,1-trichloroethane
5. trichloromethane
6. 1,2-dichloroethane



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