



Halogenated hydrocarbons in water

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

Application Note

Environmental

Authors

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Introduction

Gas chromatography using an Agilent CP-Sil 5 CB column separates 14 halogenated hydrocarbons in a water sample in 15 minutes.



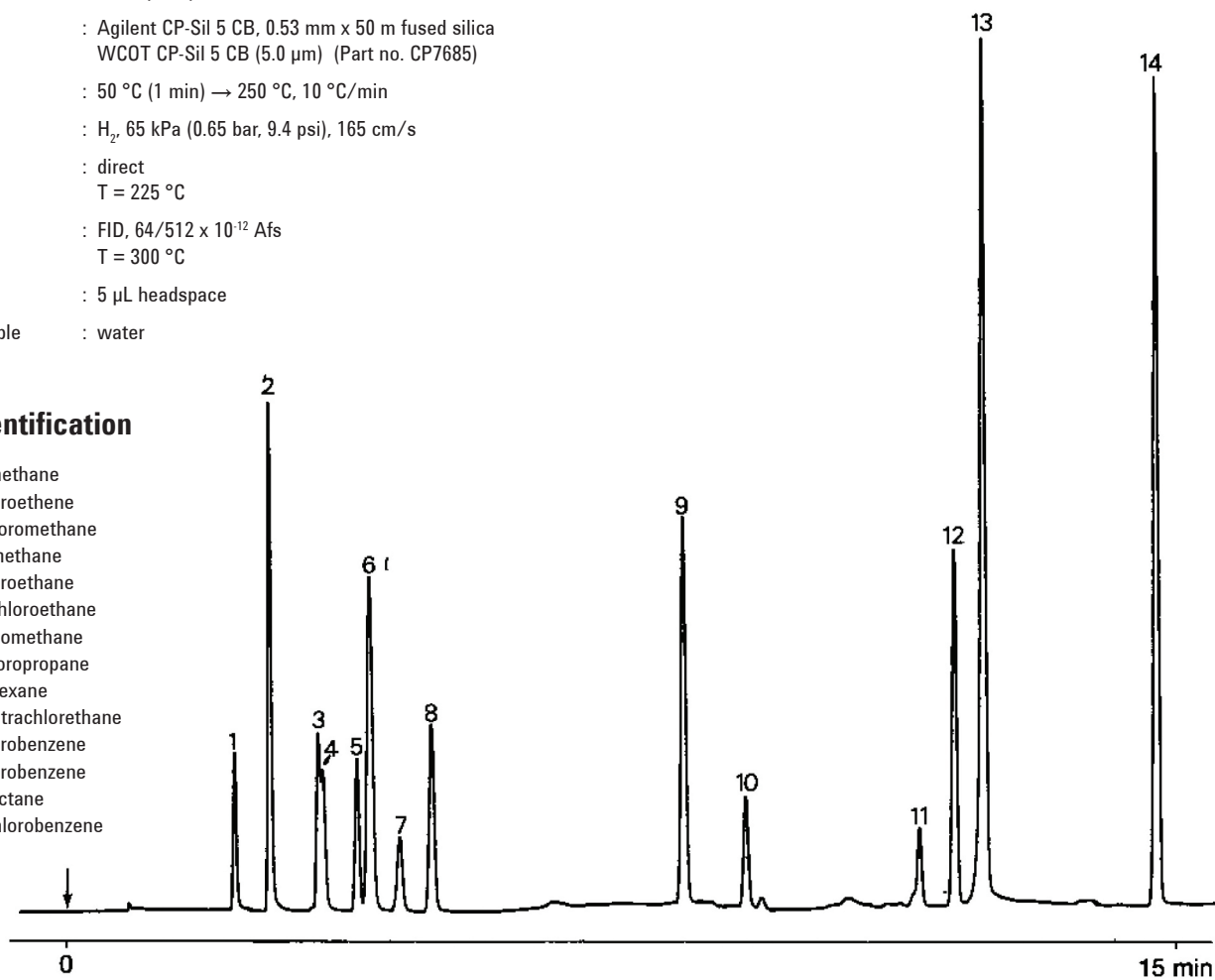
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Conditions

Technique : GC-capillary
Column : Agilent CP-Sil 5 CB, 0.53 mm x 50 m fused silica
WCOT CP-Sil 5 CB (5.0 µm) (Part no. CP7685)
Temperature : 50 °C (1 min) → 250 °C, 10 °C/min
Carrier Gas : H₂, 65 kPa (0.65 bar, 9.4 psi), 165 cm/s
Injector : direct
T = 225 °C
Detector : FID, 64/512 x 10⁻¹² Afs
T = 300 °C
Sample Size : 5 µL headspace
Solvent Sample : water

Peak identification

1. dichloromethane
2. 1,2-dichloroethene
3. bromochloromethane
4. trichloromethane
5. 1,2-dichloroethane
6. 1,1, 1-trichloroethane
7. tetrachloromethane
8. 1,2-dichloropropane
9. 1-chlorohexane
10. 1,1, 2,2-tetrachlorethane
11. 1,4-dichlorobenzene
12. 1,2-dichlorobenzene
13. 1-chlorooctane
14. 1,2,4-trichlorobenzene



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