



Halogenated hydrocarbons $C_2 - C_7$

Separation of 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 five C_2 to C_7 halogenated hydrocarbons in five minutes.



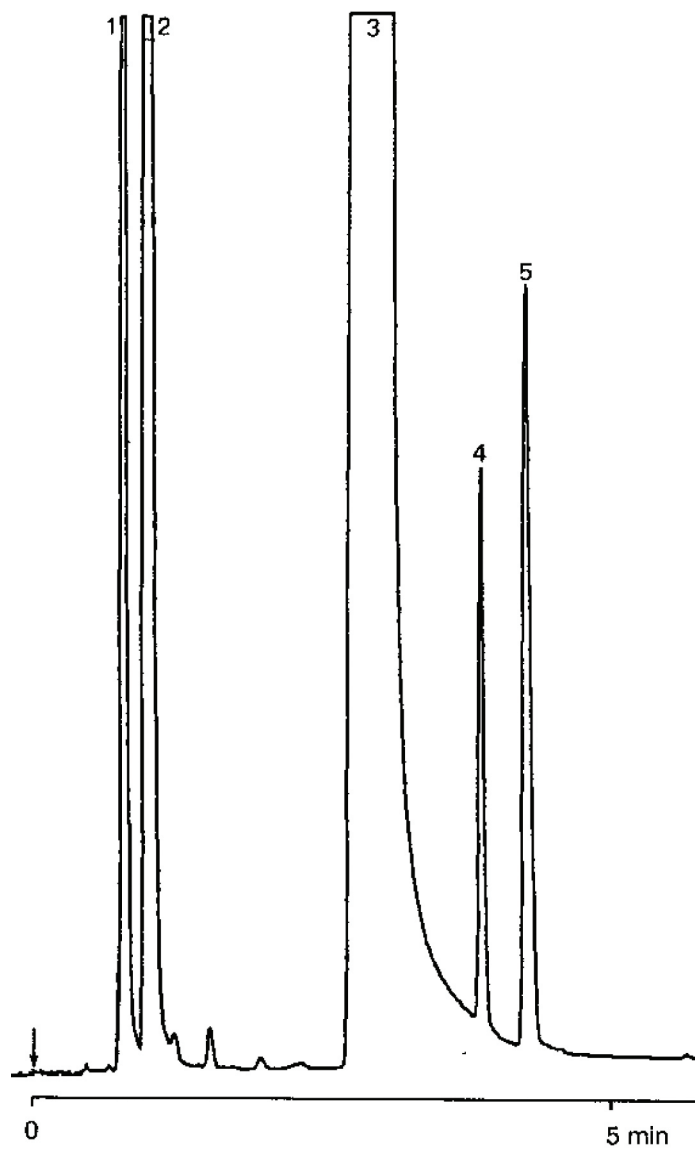
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Conditions

Technique : GC-capillary
Column : Agilent CP-Sil 5 CB, 0.53 mm x 10 m fused silica
WCOT CP-Sil 5 CB (5.0 μm) (Part no. CP7645)
Temperature : 50 $^{\circ}\text{C}$ \rightarrow 250 $^{\circ}\text{C}$, 10 $^{\circ}\text{C}/\text{min}$
Carrier Gas : N_2 , 10 kPa (0.1 bar), 52 cm/s
Injector : direct
T = 250 $^{\circ}\text{C}$
Detector : FID, 100×10^{-12} Afs
T = 275 $^{\circ}\text{C}$
Sample Size : 0.2 μL
Concentration Range : tetrachloroethene (perchloroethylene)

Peak identification

1. 1,1-dichloroethene
2. 1,2-dichloroethene + 1,1-dichloroethane
3. tetrachloroethene
4. 1,2,3-trichloropropane
5. 4-chlorotoluene



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