



Halogenated hydrocarbons

Separation of halogenated hydrocarbons and C₂ hydrocarbons

Application Note

Environmental

Authors

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Introduction

The Agilent CP-SilicaPLOT separates all C₂ isomers with high resolution. Besides this, the column is highly selective and inert for halogenated compounds. Volatile compounds such as chloromethane, vinylchloride and chloroethane elute as sharp peaks, well separated from the C₂ isomers. Typical separations can be done at temperatures above ambient. Traces of water will not change retention time.



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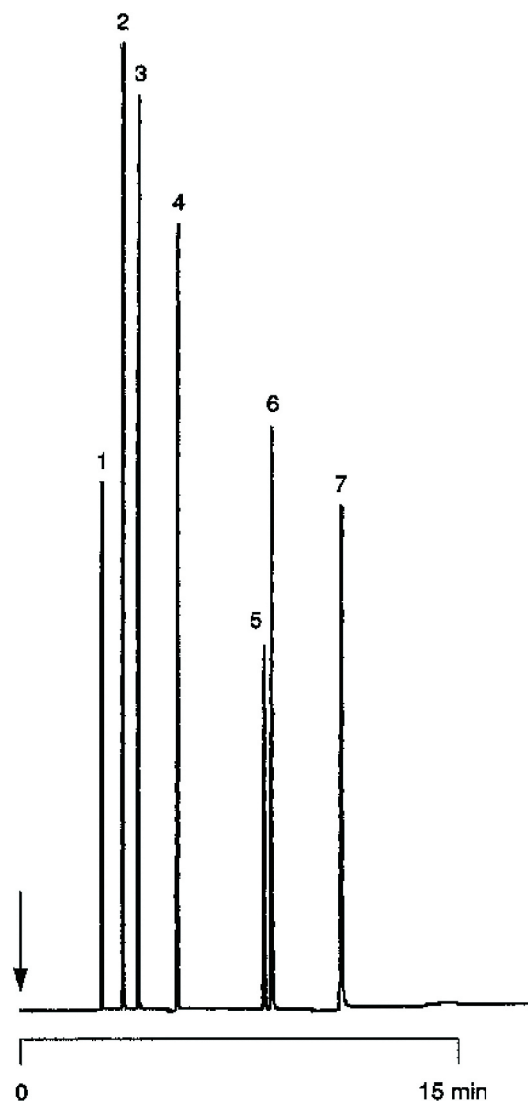
Conditions

Technique : GC-capillary
Column : Agilent CP-SilicaPLOT, 0.32 mm x 30 m, fused silica
PLOT CP-SilicaPLOT (df = 4 μ m) (Part no. CP8567)
Temperature : 40 °C (2 min) \rightarrow 200 °C, 20 °C/min
Carrier Gas : N₂, 50 kPa (0.5 bar, 7 psi)
Injector : Split, 50 mL/min
T = 200 °C
Detector : FID
T = 200 °C
Sample Size : 1 mL
Concentration Range : % level
Sample Matrix : nitrogen

Courtesy : H. Erlemeier,
Zentrale Analytik,
Hoechst AG, Germany

Peak identification

	as v/v ppm
1. methane	1000 ppm
2. ethane	980 ppm
3. ethylene	980 ppm
4. acetylene	960 ppm
5. chloromethane	1020 ppm
6. vinyl chloride	860 ppm
7. chloroathane	960 ppm



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This information is subject to change without notice.

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