Halogenated hydrocarbons

Separation of CFC (chlorofluorocarbons)

Application Note

Environmental

Authors

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Introduction

Gas chromatography with an Agilent CP-SilicaPLOT column separates three chlorofluorocarbons and methane in six minutes.

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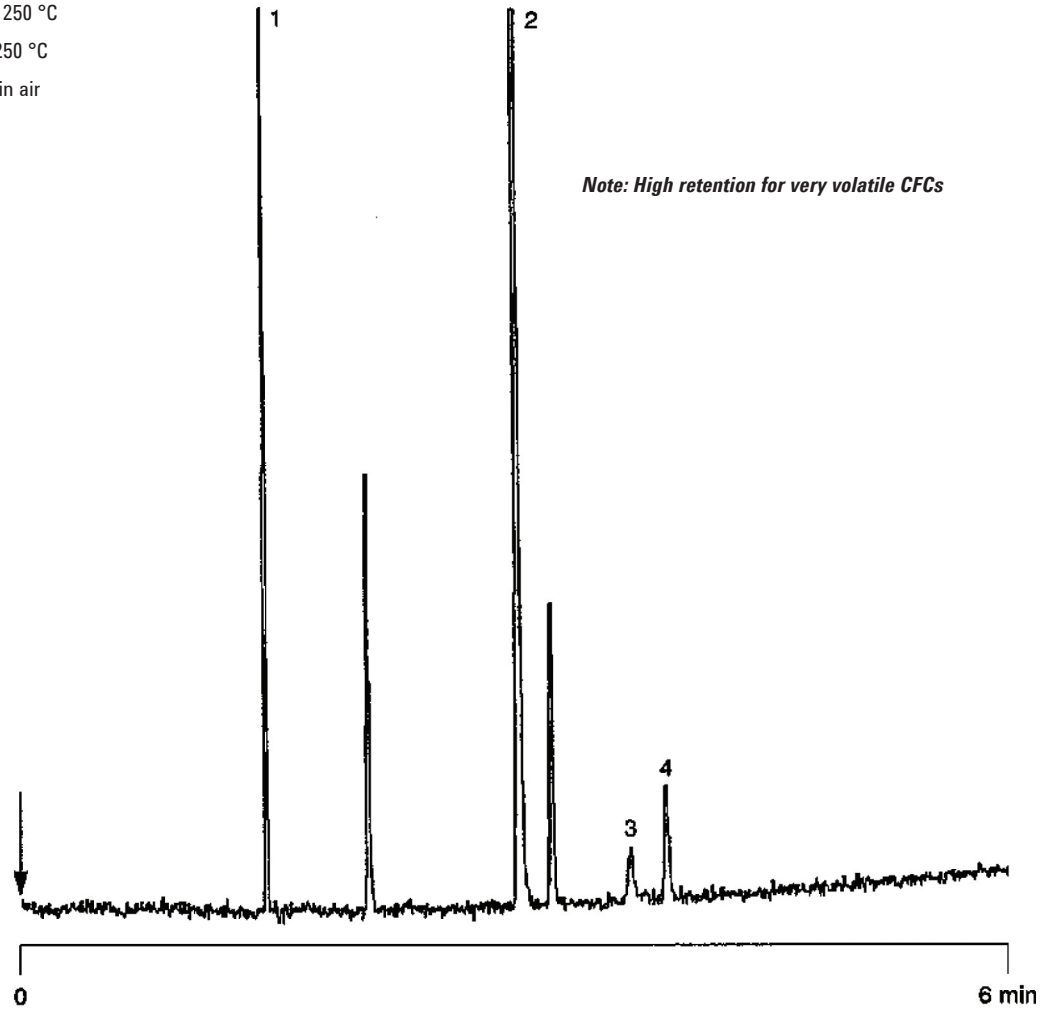
Conditions

Technique	:	GC-capillary
Column	:	Agilent CP-SilicaPLOT, 0.32 mm x 30 m fused silica PLOT CP-SilicaPLOT (df = 4 µm) (Part no. CP8567)
Temperature	:	90 °C (3 min) ⟶ 200 °C, 10 °C/min
Carrier Gas	:	He, 100 kPa (1 bar, 14 psi)
Injector	:	Split, T = 250 °C
Detector	:	FID, T = 250 °C
Concentration Range	:	100 ppm in air

Peak identification

1. methane
2. CFC 32
3. CFC 12
4. CFC 22



Note: High retention for very volatile CFCs

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