



Halogenated hydrocarbons

Separation of CFCs on a bonded porous polymer

Application Note

Environmental

Authors

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Introduction

The Agilent PoraBOND Q column separates a range of very volatile CFCs at a starting temperature of 40 °C. For these components the selectivity of the column is almost the same as the Agilent PoraPLOT Q column. On an Agilent CP-SilicaPLOT column, the elution order of CFC 125 and CFC 143a is reversed and components CFC 1122 and CFC 134a co-elute.



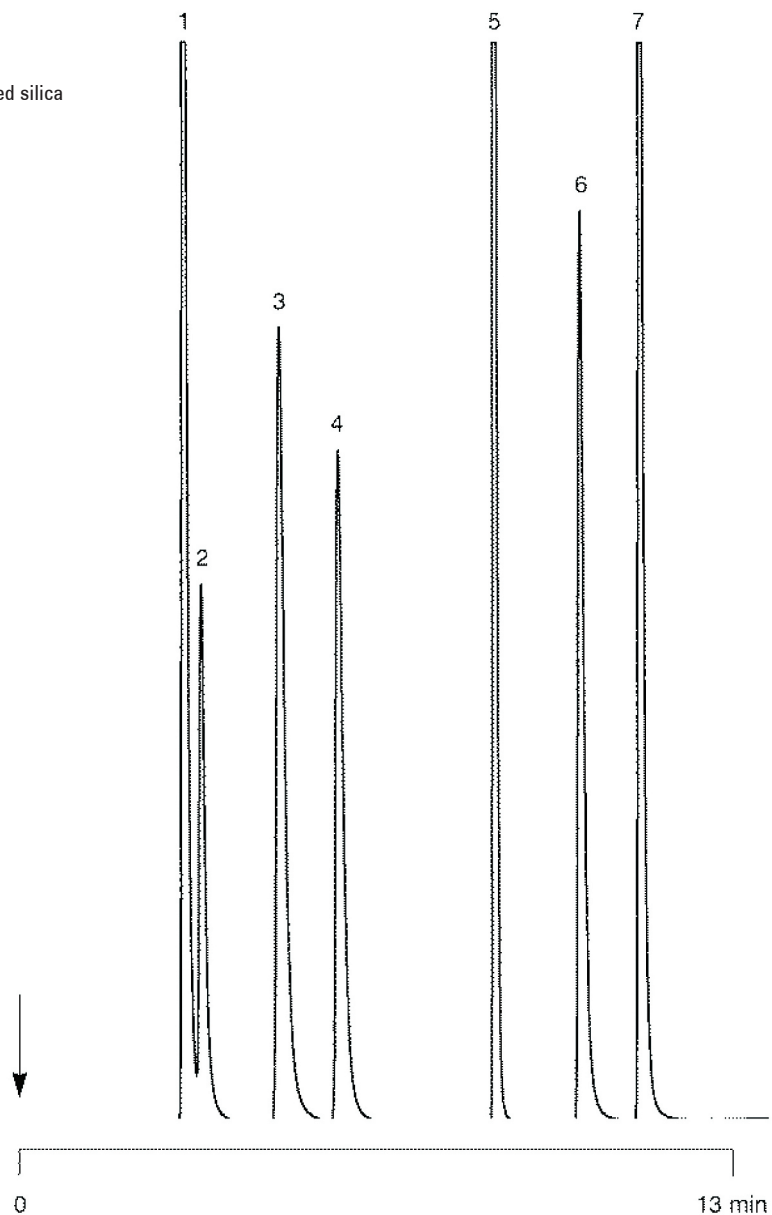
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Conditions

Technique : GC-wide-bore
Column : Agilent PoraBOND Q, 0.53 mm x 25 m fused silica
PLOT (df = 10 μ m) (Part no. CP7354)
Temperature : 40 °C (5 min) \rightarrow 220 °C, 10 °C/min
Carrier Gas : He, 35 kPa (0.35 bar, 5 psi)
Injector : Split, 50 mL/min
T = 250 °C
Detector : FID
T = 250 °C
Sample Size : 100 μ L, 1% vol

Peak identification

1. CFC 143a
2. CFC 125
3. CFC 134a
4. CFC 134
5. CFC 1122
6. CFC 124
7. CFC 133a



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This information is subject to change without notice.

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