



Hydrocarbons, C₁ - C₃

High resolution separation of C₁-C₃ hydrocarbons in a matrix containing moisture

Application Note

Energy & Fuels

Authors

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Introduction

Agilent CarboBOND separates C₁ - C₃ hydrocarbons with the highest possible resolution. In addition, the water peak elutes before propane. Water has virtually no influence on retention times, offering the possibility of using this column for reproducible routine analysis of samples containing water.



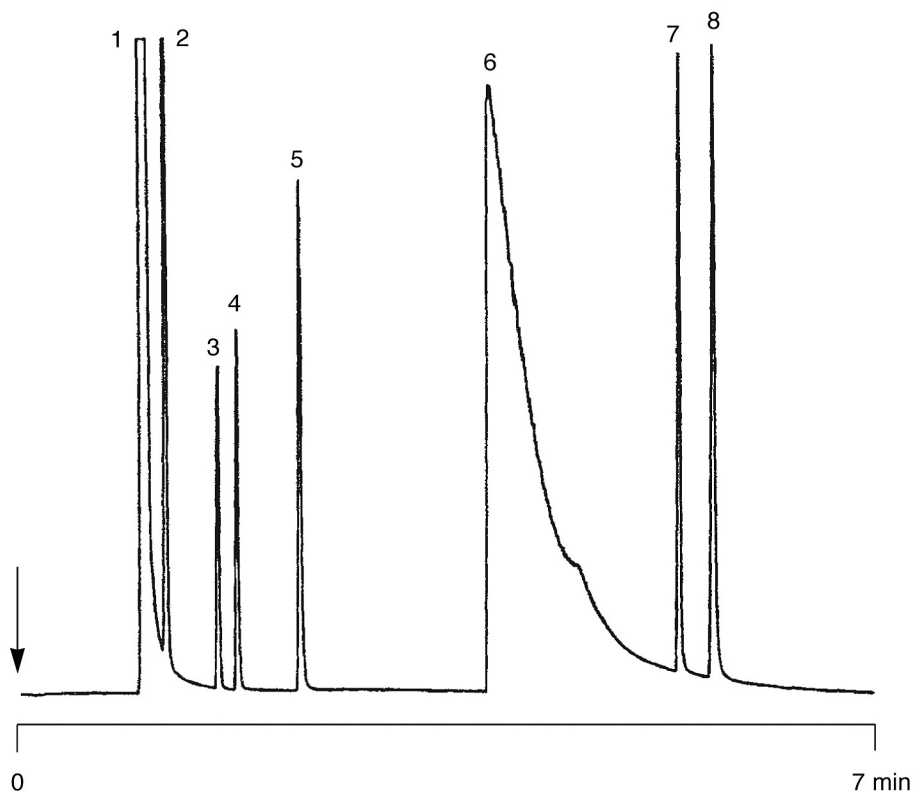
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Conditions

Technique : GC-wide-bore
Column : Agilent CarboBOND, 0.53 mm x 25 m fused silica
PLOT (df = 10 μ m) (Part no. CP7374)
Temperature : 35 °C (2 min) \rightarrow 120 °C, 20 °C/min
Carrier Gas : He, 20 kPa (0.2 bar, 3 psi)
Injector : Split
T = 150 °C
Detector : PDD
T = 250 °C
Concentration Range : 10 ppm in argon

Peak identification

1. argon
2. methane
3. acetylene
4. ethylene
5. ethane
6. water
7. propylene
8. propane



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This information is subject to change without notice.

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