



Hydrocarbons

Analysis of hydrocarbons on Agilent PoraPLOT Q

Application Note

Energy & Fuels

Authors

Agilent Technologies, Inc.

Introduction

Gas chromatography with an Agilent PoraPLOT Q column separates ten hydrocarbons in three minutes.



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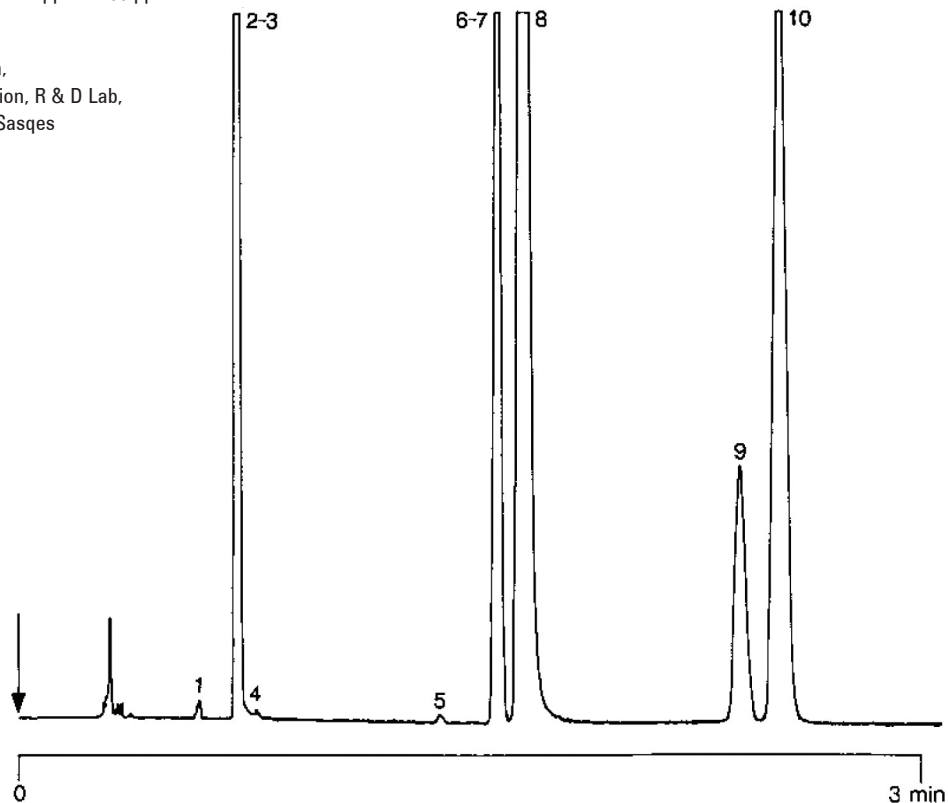
Conditions

Technique : GC-capillary
Column : Agilent PoraPLOT Q, 0.53 mm x 25 m fused silica
PLOT PoraPLOT Q (df = 20 µm)
(Part no. CP7554)
Temperature : 90 °C
Carrier Gas : He, 105 kPa (1.05 bar, 15 psi)
Injector : Splitter, 1:50
T = 240 °C
Detector : FID
T = 300 °C
Sample Size : 1 mL
Concentration Range : traces methane, ethane and propane less than
1 ppm, other components approx. 100 ppm

Courtesy : Dow Chemical Canada,
Western Canada Division, R & D Lab,
Jim Luong and David Sasqes

Peak identification

1. methane
2. ethylene
3. acetylene
4. ethane
5. propylene
6. propane
7. methyl chloride
8. cyclopropane
9. acetaldehyde
10. ethylene oxide



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This information is subject to change without notice.

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