



Hydrocarbons, C₁ – C₄

Application Note

Energy & Fuels

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Introduction

Gas chromatography using an Agilent PoraPLOT Q-HT column separates nine C₁ to C₄ hydrocarbons in 12 minutes.



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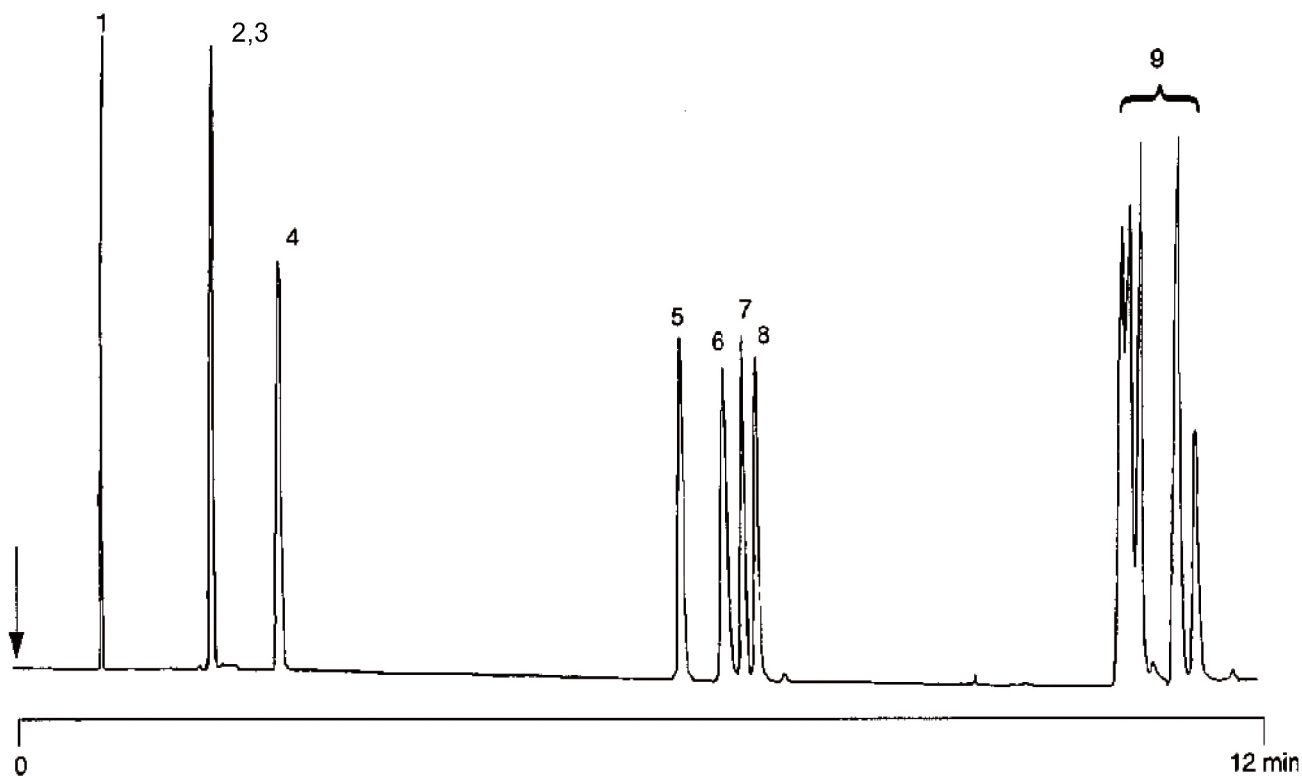
PoraPLOT Q-HT is not sensitive for moisture; retention times of compounds will not change upon water introduction.

Conditions

Technique : GC
Column : Agilent PoraPLOT Q-HT, 0.53 mm x 25 m fused silica PoraPLOT Q-HT (df = 20 μ m) (Part no. CP7559)
Temperature : 35 $^{\circ}$ C, 2 min \rightarrow 150 $^{\circ}$ C, 10 $^{\circ}$ C/min
Carrier Gas : H₂, 35 kPa, (0.35 bar)
Injector : Split
Detector : FID
Sample Size : 1% in N₂ containing trace water

Peak identification

1. methane
2. ethylene
3. acetylene
4. ethane
5. propylene
6. propane
7. propadiene
8. methylacetylene (propyne)
9. C4-isomers



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This information is subject to change without notice.

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