



Hydrocarbons, $C_3 - C_6$

Analysis of saturated and unsaturated $C_3 - C_6$ hydrocarbons

Application Note

Energy & Fuels

Authors

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Introduction

Gas chromatography using an Agilent PoraPLOT Q-HT column separates ten C_3 to C_6 hydrocarbons in 12 minutes.



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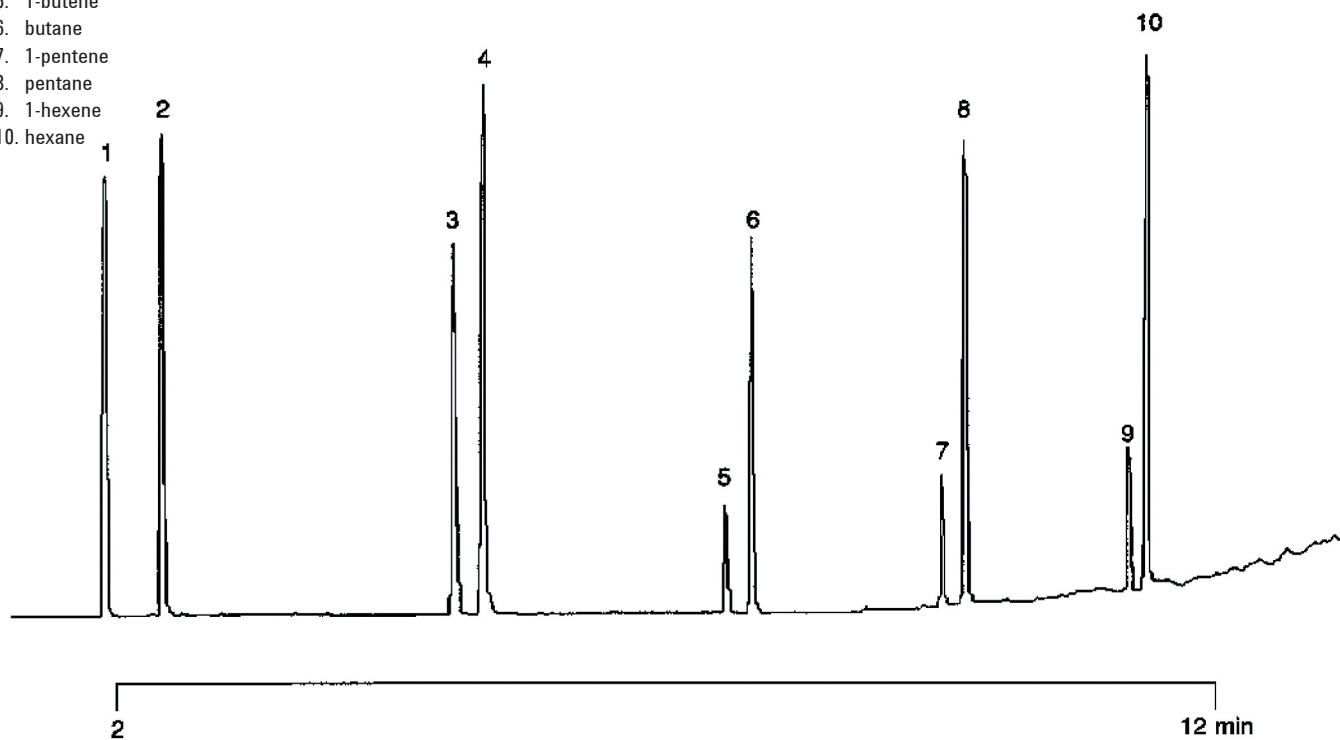
Conditions

Technique : GC-wide-bore
Column : Agilent PoraPLOT Q-HT, 0.53 mm x 25 m, fused silica
PLOT PoraPLOT Q-HT (df = 20 µm)
(Part no. CP7559)
Temperature : 40 °C → 260 °C, 10 °C/min
Carrier Gas : He, 60 kPa (0.6 bar, 8.7 psi)
Injector : Split
Detector : FID

Peak identification

1. methane
2. ethylene
3. propylene
4. propane
5. 1-butene
6. butane
7. 1-pentene
8. pentane
9. 1-hexene
10. hexane

PoraPLOT Q-HT offers the same selectivity as the PoraPLOT Q or Porapak Q porous polymers. Peak elution order is comparable.



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