



# Hydrocarbons, C<sub>1</sub> – C<sub>4</sub>

## Separation of light hydrocarbons, methanol and dimethylether

### Application Note

Energy & Fuels

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#### Introduction

The high retention power of Agilent PoraPLOT Q-HT allows the separation of C<sub>1</sub> to C<sub>4</sub> hydrocarbons, methanol and dimethylether at temperatures well above ambient. The peak shape of methanol is a good indication of the excellent inertness of this column.



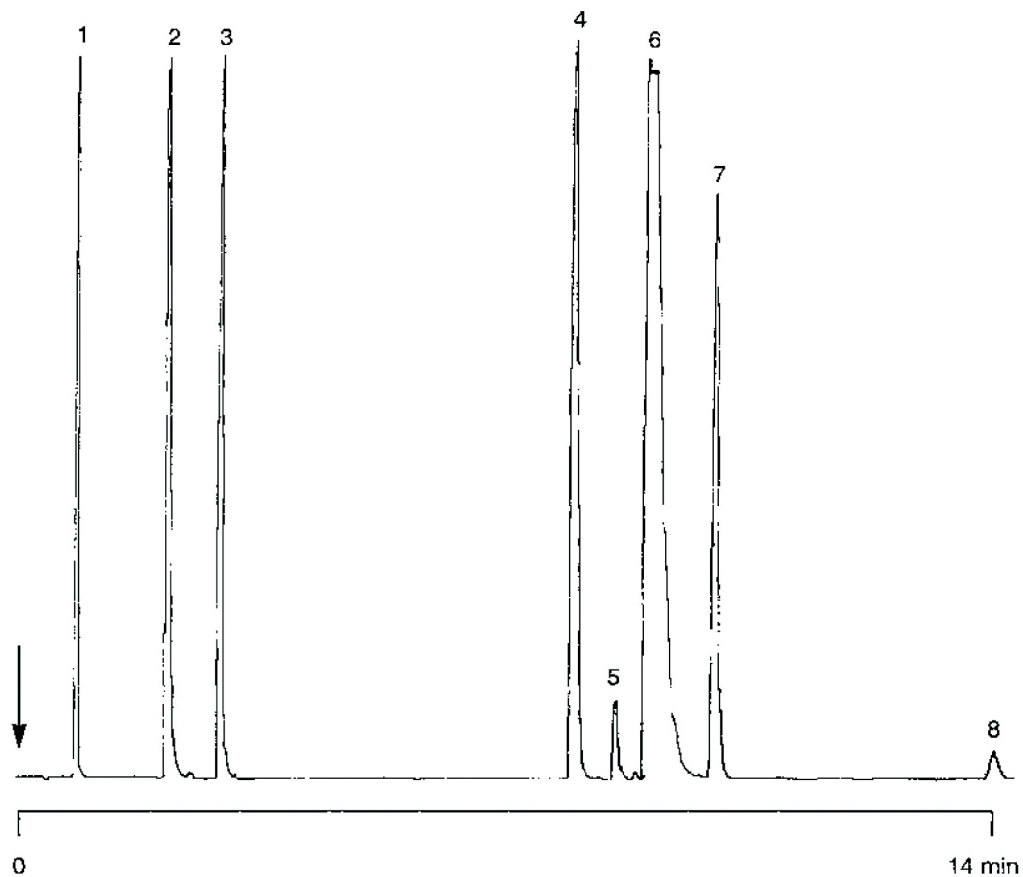
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## Conditions

Technique : GC-capillary  
Column : Agilent PoraPLOT Q-HT, 0.32 mm x 25 m fused silica  
PLOT (df = 10  $\mu$ m) (Part no. CP7557)  
Temperature : 40 °C (2 min)  $\rightarrow$  100 °C, 5 °C/min  
Carrier Gas : He, 160 kPa (1.6 bar, 22.4 psi)  
Injector : Split, 130 mL/min  
T = 175 °C  
Detector : FID  
T = 200 °C  
Sample Size : 1 mL  
Solvent Sample : vapour

## Peak identification

1. methane
2. ethene
3. ethane
4. propene
5. propane
6. methanol
7. dimethylether
8. isobutane



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