**Hydrocarbons, C$_1$ – C$_6$, other gases**

Analysis of hydrocarbons C$_1$ - C$_6$, CO$_2$, H$_2$S and water

Application Note

Energy & Fuels

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**Introduction**

Gas chromatography using an Agilent PoraPLOT Q column separates 11 C$_1$ to C$_6$ hydrocarbons and other gases in six minutes.
**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: 40 °C → 200 °C, 10 °C/min  
Carrier Gas: He, 120 kPa (1.2 bar, 17 psi), 7 mL/min  
Injector: Splitter  
T = 200 °C  
Detector: μ-TCD, x4  
T = 220 °C, filaments T = 280 °C  
Sample Size: 0.5 mL  

Courtesy: GL-Sciences, Japan

**Peak identification**

1. methane  
2. carbon dioxide  
3. ethane  
4. hydrogen sulfide  
5. water  
6. propane  
7. isobutane  
8. n-butane  
9. isopentane  
10. n-pentane  
11. n-hexane

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