Hydrocarbons, $C_1 - C_2$

Application Note

Energy & Fuels

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**Introduction**
Fast gas chromatography with an Agilent PoraPLOT U column separates four $C_1$ to $C_4$ hydrocarbons in two minutes at 30 °C and 1 minute at 60 °C.
**Conditions**

Technique: GC-capillary  
Column: Agilent PoraPLOT U, 0.53 mm x 25 m fused silica  
PLOT PoraPLOT U (df = 20 μm) (Part no. CP7584)  
Temperature: A 30 °C; B 60 °C  
Carrier Gas: H₂  
Injector: Split, 100 mL/min  
Detector: FID, 64 X 10⁻¹² Afs  
Sample Size: 1% in N₂

**Peak identification**

1. methane  
2. ethylene  
3. ethane  
4. acetylene