Hydrocarbons, C₁ – C₃, and polar volatiles

Application Note

Energy & Fuels

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Introduction
Gas chromatography with an Agilent PoraPLOT U column separates six C₁ to C₃ hydrocarbons and polar volatiles in five minutes.
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: 115 °C
Carrier Gas: H₂, 20 kPa (0.2 bar, 2.9 psi)
Injector: Split, 100 mL/min
Detector: Fld, 32 x 10^-12 Afs
Sample Size: 100 ppm in H₂

Peak identification

1. methane
2. ethane
3. propane
4. methanol
5. acetaldehyde
6. ethanol