Hydrocarbons, $C_1 - C_3$
High resolution separation of $C_1$-$C_3$ hydrocarbons in a matrix containing moisture

Application Note

Energy & Fuels

**Introduction**

Agilent CarboBOND separates $C_1$ - $C_3$ hydrocarbons with the highest possible resolution. In addition, the water peak elutes before propane. Water has virtually no influence on retention times, offering the possibility of using this column for reproducible routine analysis of samples containing water.
Conditions

Technique: GC-wide-bore
Column: Agilent CarboBOND, 0.53 mm x 25 m fused silica PLOT (df = 10 μm) (Part no. CP7374)
Temperature: 35 °C (2 min) → 120 °C, 20 °C/min
Carrier Gas: He, 20 kPa (0.2 bar, 3 psi)
Injector: Split
   T = 150 °C
Detector: PDD
   T = 250 °C
Concentration Range: 10 ppm in argon

Peak identification

1. argon  
2. methane 
3. acetylene 
4. ethylene 
5. ethane  
6. water   
7. propylene 
8. propane