Gases $C_1 - C_4$
Analysis of gases and volatiles

Application Note

Environmental

Authors
Agilent Technologies, Inc.

Introduction
Gas chromatography with an Agilent PoraPLOT Q column separates eight gases and volatiles in 13 minutes.
**Conditions**

Technique: GC-capillary

Column: Agilent PoraPLOT Q, 0.53 mm x 25 m fused silica PLOT (df = 20 μm) (Part no. CP7554)

Temperature: 40 °C (3 min) → 150 °C, 10 °C/min

Carrier Gas: He, 65 kPa (0.65 bar, 8 psi)

Injector: Split, 1 : 50, T = 225 °C

Detector: TCD, T = 250 °C

Sample Size: 50 μL

Courtesy: Ernest Gil, Senior Research Analyst, Celanese Technical Center, Corpus Christi, Texas

**Peak identification**

1. carbon monoxide
2. methane
3. carbon dioxide
4. ethylene
5. ethane
6. propylene
7. propane
8. butane