Permanent gases

Application Note

Environmental

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Introduction
Gas chromatography with an Agilent CarboPLOT P7 column separates six permanent gases in air in four minutes.
Conditions

Technique: GC-capillary

Column: Agilent CarboPLOT P7, 0.53 mm x 10 m fused silica PLOT CarboPLOT P7 (df = 25 µm) (Part no. CP7513)

Temperature: 80 °C

Carrier Gas: He, 50 kPa (0.5 bar, 7 psi)

Injector: Splitter, 30 mL/min

Detector: µ-TCD

Sample Size: 40 µL

Concentration Range: 1% in air

Peak identification

A. hydrogen
1. air
2. methane
3. carbon dioxide
4. ethylene
5. acetylene
6. ethane