Solvents

Application Note

Materials Testing & Research

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Introduction
Gas chromatography with an Agilent PoraPLOT Q column separates 11 solvents in four minutes.
**Conditions**

Technique: GC-capillary

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

Temperature: 100 °C → 200 °C, 10 °C/min

Carrier Gas: \( \text{H}_2 \), 40 kPa (0.4 bar, 6psi); 15 mL/min

Injector: Direct

Detector: FID, 128 \( \times 10^{-12} \) Afs

Sample Size: 10 µL headspace

Concentration range: 1 - 3%

**Peak identification**

1. methanol
2. ethanol
3. acetonitrile
4. acetone
5. isopropanol
6. dichloromethane
7. methyl acetate
8. n-pentane
9. ethyl acetate
10. n-hexane
11. benzene

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