Applications

Gas chromatography with an Agilent PoraPLOT U column identifies trace water in acetone in five minutes.
Conditions

Technique: GC-capillary

Column: Agilent PoraPLOT U, 0.32 mm x 25 m fused silica

PLOT PoraPLOT U (df = 10 μm) (Part no. CP7581)

Temperature: 175 °C

Carrier Gas: H₂, 40 kPa (0.4 bar, 5.72 psi)

Injector: Splitter, 100 mL/min;

T = 200 °C

Detector: μ-TCD, 4 x 10

T = 100/180 °C

Sample Size: 0.5 μL

Concentration Range: 500 ppm

Peak identification

1. air
2. water 500 ppm
3. unknown
4. acetone (99.9%)