Solvents

Analysis of water in acetone

Application Note

Materials Testing & Research

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Introduction

Gas chromatography with an Agilent PoraPLOT Q-HT column identifies water in an acetone sample in six minutes.

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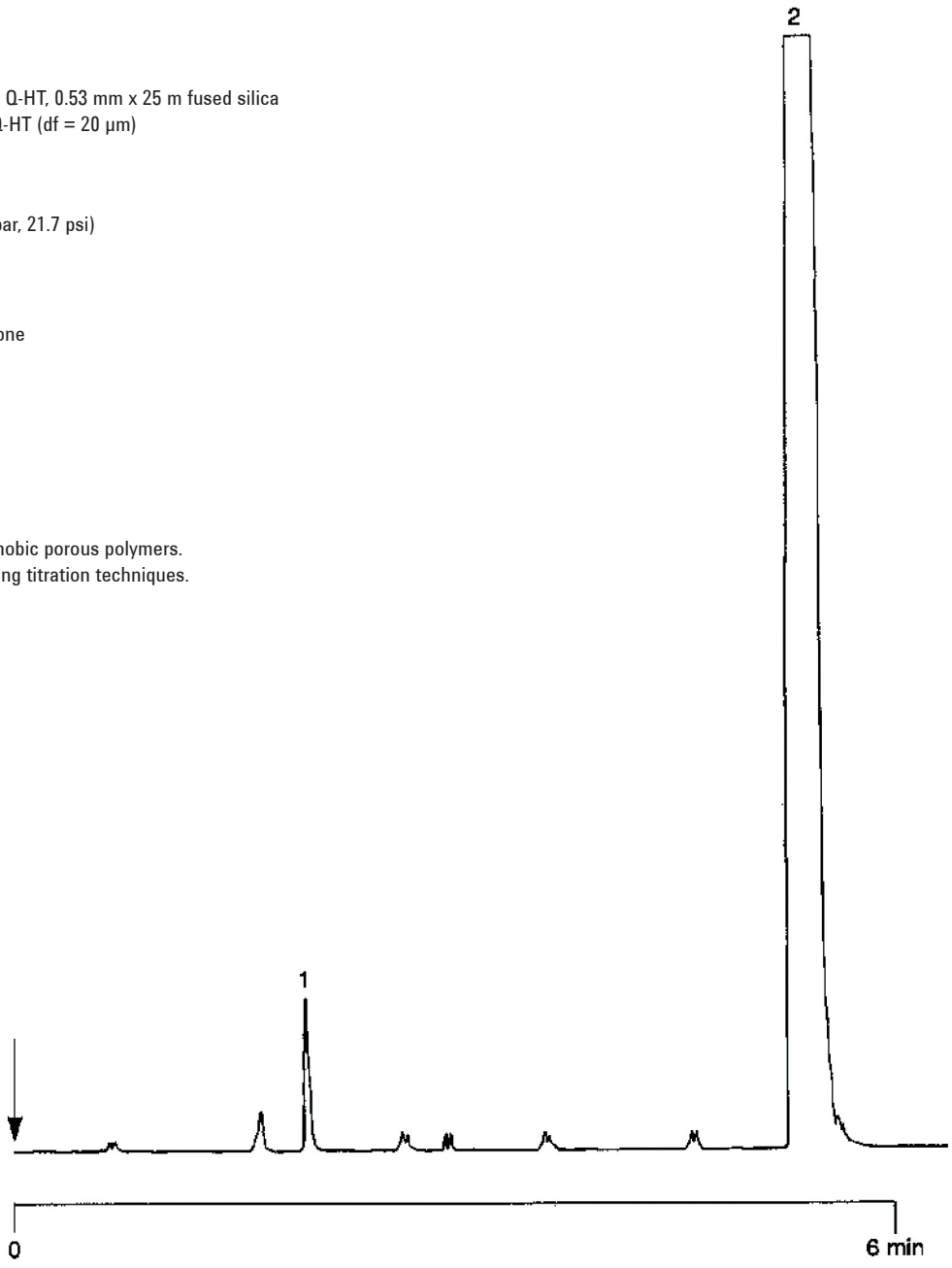
Conditions

Technique	:	GC-wide-bore
Column	:	Agilent PoraPLOT Q-HT, 0.53 mm x 25 m fused silica PLOT PoraPLOT Q-HT (df = 20 µm) (Part no. CP7559)
Temperature	:	150 °C
Carrier Gas	:	He, 150 kPa (1.5 bar, 21.7 psi)
Injector	:	Split
Detector	:	µ-TCD
Concentration	:	4000 ppm in acetone

Peak identification

1. water
2. acetone

Water elutes very quickly from the hydrophobic porous polymers.
Water can be analyzed directly without using titration techniques.



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