Oxygenated hydrocarbons, C_3

Determination of ppm levels of water in pure propylene oxide

Application Note

Energy & Fuels

Authors

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Introduction

Gas chromatography with an Agilent PoraPLOT U column determines ppm levels of water in pure propylene oxide in three minutes.

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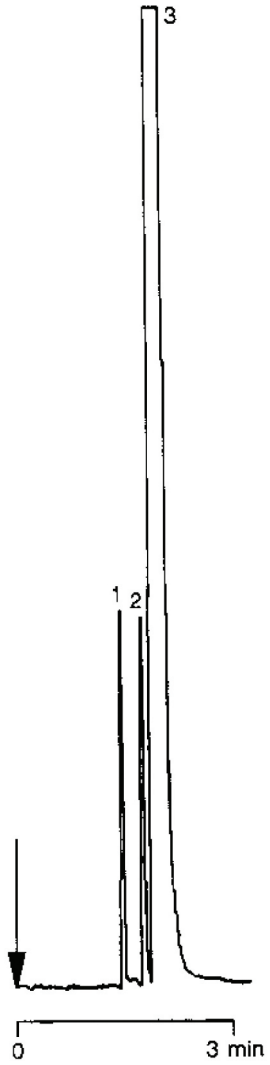
Conditions

Technique	:	GC-wide-bore
Column	:	Agilent PoraPLOT U, 0.53 mm x 25 m fused silica PLOT PoraPLOT U (df = 20 µm) (Part no. CP7584)
Temperature	:	190 °C
Carrier Gas	:	He, 5 mL/min
Injector	:	Direct T = 100 °C
Detector	:	TCD T = 170 °C
Sample Size	:	5 µL
Courtesy	:	D. Korczewski, Dow Deutschland Inc., Werk Stade, Germany

Peak identification

1. air
2. water (55 ppm)
3. propylene oxide



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