Fatty acids and esters, C_2

Determination of impurities in acetic acid

Application Note

Materials Testing & Research

Authors

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Introduction

Gas chromatography with an Agilent CP-Wax 52 CB column separates four C_2 impurities in acetic acid in ten minutes.

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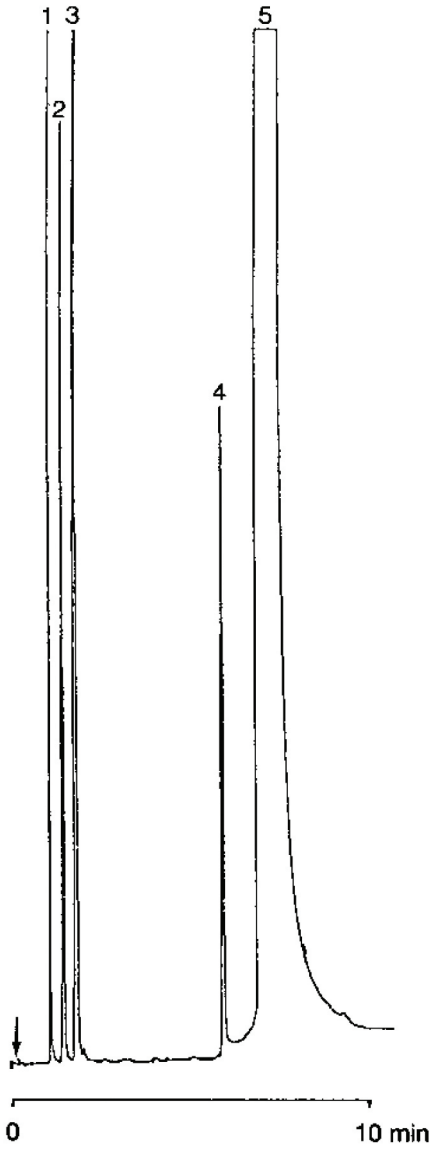
Conditions

Technique	: GC-capillary
Column	: Agilent CP-Wax 52 CB, 0.53 mm x 25 m fused silica WCOT CP-Wax 52 CB (2.0 µm) (Part no. CP7658)
Temperature	: 50 °C → 200 °C, 10 °C/min
Carrier Gas	: N_2, 47 cm/s (10 mL/min)
Injector	: Direct T = 250 °C
Detector	: FID, 100 x 10^{-12} Afs T = 275 °C
Sample Size	: 0.2 µL
Solvent Sample	: acetic acid

Peak identification

1. acetaldehyde
2. ethylformate
3. ethylacetate
4. acetic anhydride
5. acetic acid



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