Volatile free fatty acids

Separation of C_2-C_5 free fatty acids on a fused silica capillary column

Application Note

Materials Testing & Research

Authors

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Introduction

Gas chromatography using an Agilent CP-FFAP column separates several C_2 to C_5 free fatty acids in five minutes.

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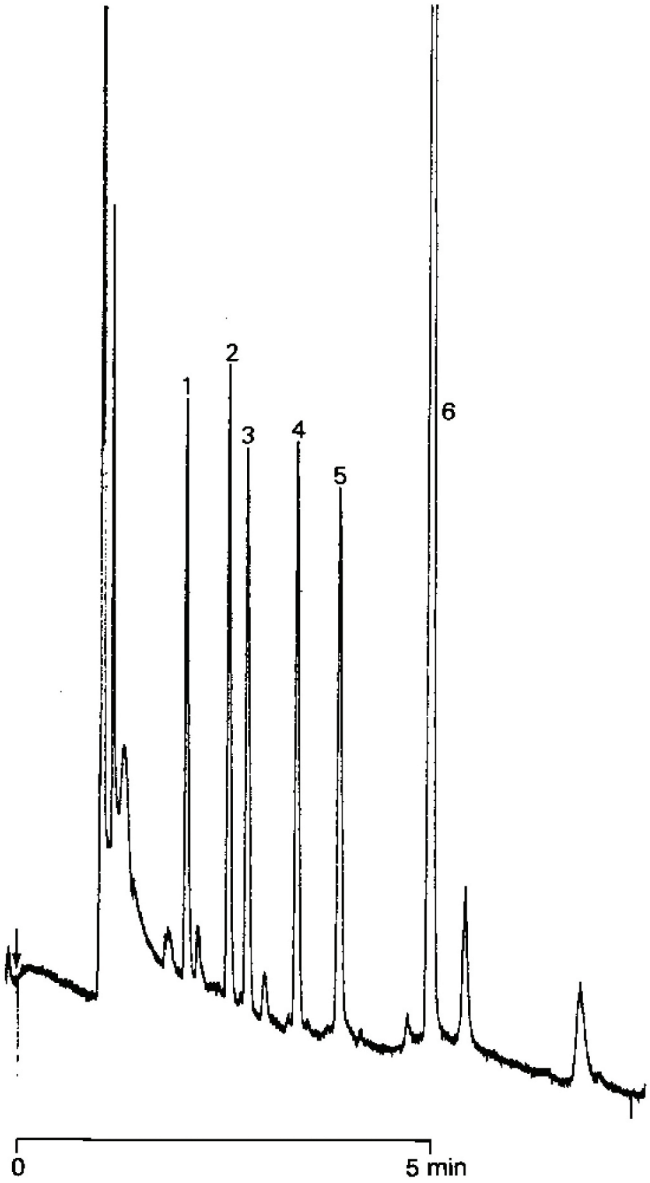
Conditions

Technique	:	GC-capillary
Column	:	Agilent CP-FFAP, 0.22 mm x 25 m fused silica WCOT FFAP (0.2 µm) (Part no. CP7480)
Temperature	:	130 °C
Carrier Gas	:	H_2, 128 kPa (1.28 bar, 18.5 psi), 40 cm/s
Injector	:	Splitter, 3 mL/min T = 250 °C
Detector	:	FID, 2 x 10^{-12} Afs T = 200 °C
Sample Size	:	1.1 µL
Concentration Range	:	0.5 %

Peak identification

1. acetic acid
2. propionic acid
3. isobutyric acid
4. butyric acid
5. isovaleric acid
6. valeric acid



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