



Volatile free fatty acids

Separation of C₂-C₅ free fatty acids on a wide-bore fused silica capillary column

Application Note

Materials Testing & Research

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Introduction

Gas chromatography using an Agilent CP-Wax 57 CB column, with special acid treatment, separates several free fatty acids in five minutes.



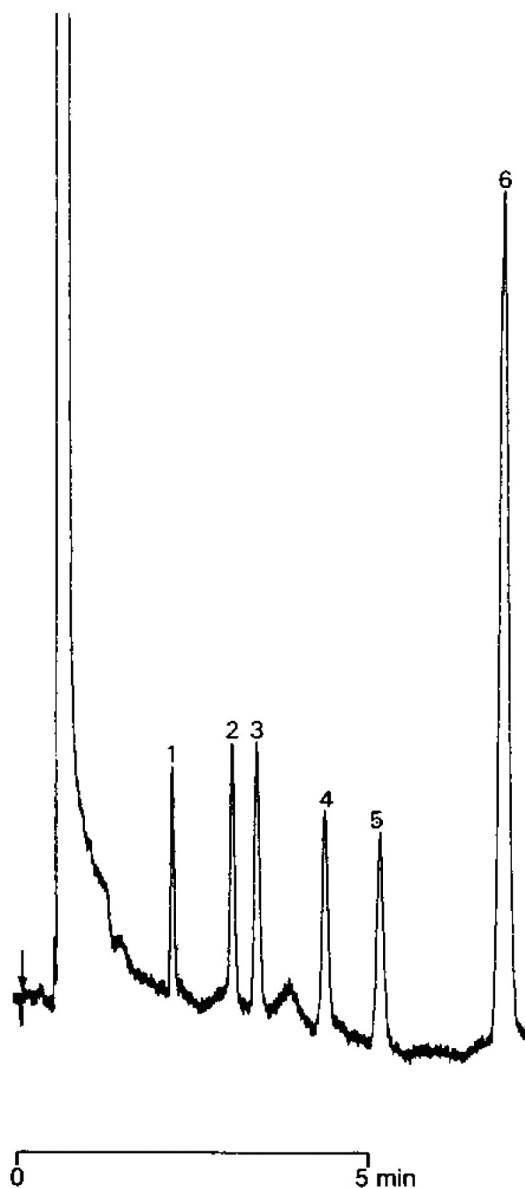
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Conditions

Technique : GC-capillary
Column : Agilent CP-Wax 57 CB, 0.53 mm x 10 m fused silica
WCOT CP-Wax 57 CB (2.0 μ m) (Custom-made)
Temperature : 130 °C
Carrier Gas : H₂, 13 kPa (0.13 bar, 1.9 psi), 33 cm/s
Injector : Splitter, 3 mL/min
T = 250 °C
Detector : FID, 2 x 10⁻¹⁰ Afs
T = 250 °C
Sample Size : 0.2 μ L
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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This information is subject to change without notice.

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