Fatty acid methyl esters, $C_{16} - C_{20}$

Application Note

Materials Testing & Research

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Introduction
Gas chromatography with an Agilent CP-Sil 88 column separates 12 $C_{16}$ to $C_{20}$ fatty acid methyl esters in 20 minutes.
Conditions

Technique: GC-capillary

Column: Agilent CP-Sil 88, 0.22 mm x 50 m fused silica WCOT
CP-Sil 88 (0.2 µm)  (Part no. CP7488)

Temperature: 190 °C

Carrier Gas: He, 200 kPa (2.0 bar, 19 psi)

Injector: Splitter

Detector: FID, 2 x 10⁻¹¹

Sample Size: 0.2 µL

Peak identification

1. C16:0
2. C17:0
3. C18:0
4. 9 trans
5. 9 cis
6. 9,12 trans,trans
7. 9,12 cis,trans
8. 9,12 trans,cis
9. 9,12 cis,cis
10. C20:0
11. 9,12 cis,trans
12. 10,12 trans,cis

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