



Fatty acid methyl esters

Determination of fatty acids in sunfish as their methyl esters

Application Note

Food Testing & Agriculture

Authors

Agilent Technologies, Inc.

Introduction

Gas chromatography using an Agilent CP-Sil 88 CB column separates 12 fatty acids as their methyl esters in sunfish in 25 minutes.



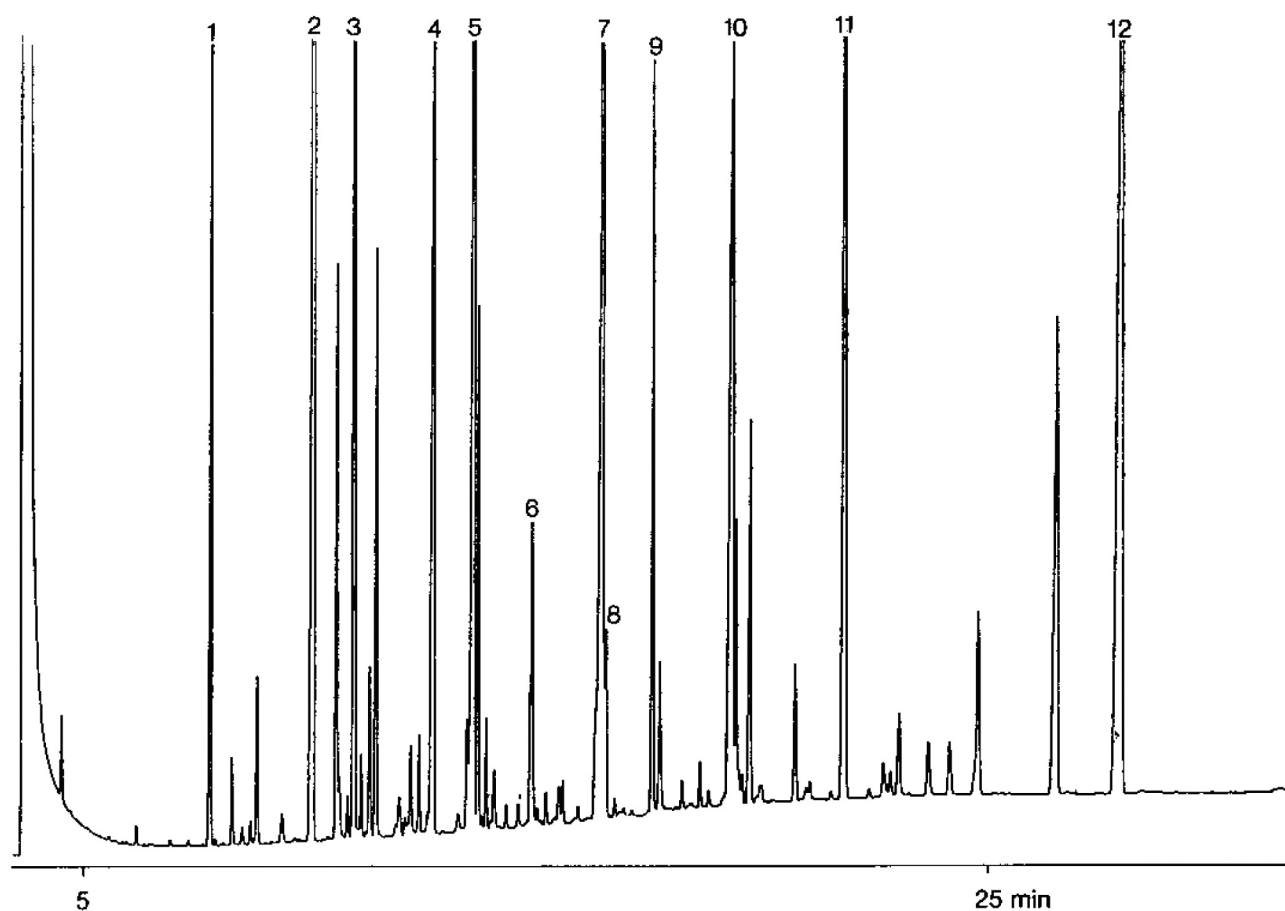
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Conditions

Technique : GC-capillary
Column : Agilent CP-Sil 88 CB, 0.22 mm x 50 m fused silica
WCOT CP-Sil 88 CB (0.2 µm) (Part no. CP7488)
Temperature : 150 °C → 220 °C, 4 °C/min
Carrier Gas : He, 230 kPa (2.3 bar, 33 psi), 25 cm/s
Injector : Splitter, 40 mL/min
T = 250 °C
Detector : FID, 8×10^{-12} Afs
T = 250 °C
Sample Size : 0.2 µL

Peak identification

1. C14:0
2. C16:0
3. C16:1
4. C18:0
5. C18:1
6. C18:2
7. C20:1
8. C18:3
9. C18:4
10. C22:1
11. C24:0
12. C22:6



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