



Fatty acid methyl esters

Application Note

Food Testing & Agriculture

Authors

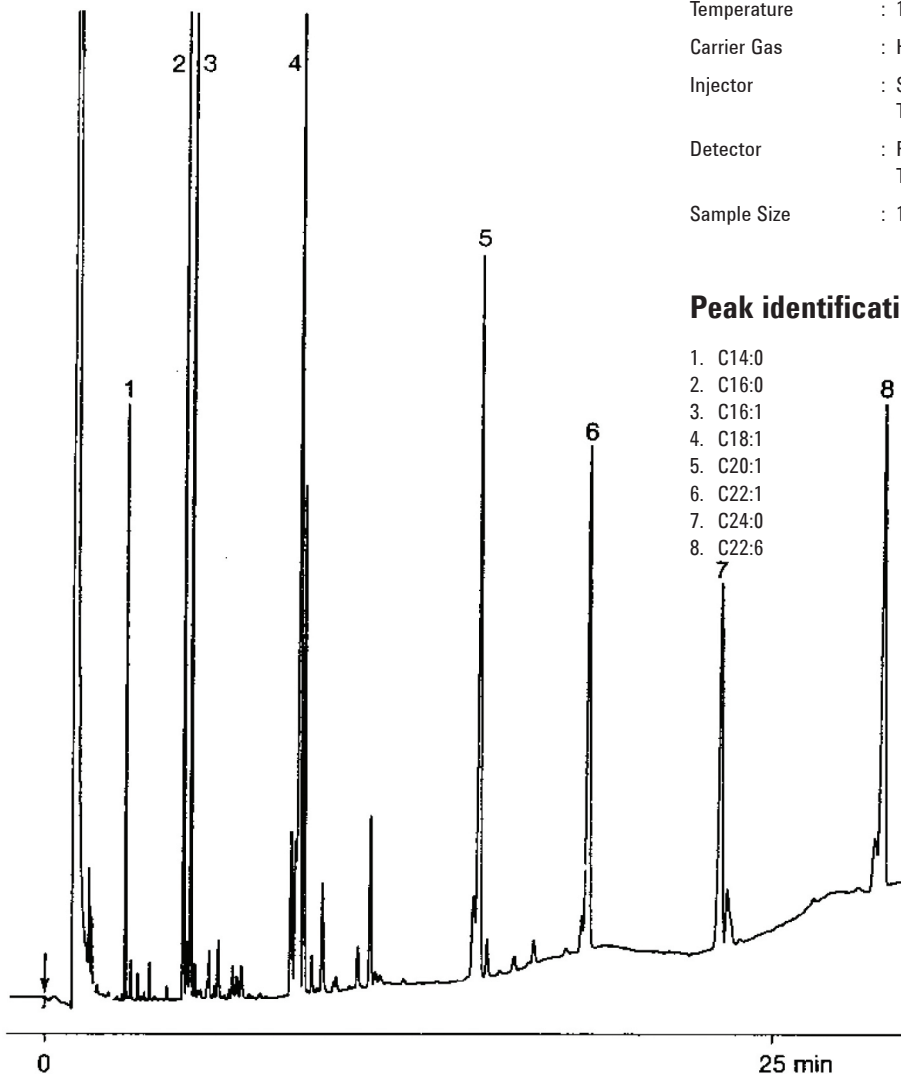
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Introduction

Gas chromatography using an Agilent CP-Sil 43 CB column separates eight fatty acids as their methyl esters in 25 minutes.



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Conditions

Technique : GC-capillary
Column : Agilent CP-Sil 43 CB, 0.22 mm x 25 m fused silica
WCOT CP-Sil 43 CB (0.2 μ m) (Part no. CP7715)
Temperature : 170 $^{\circ}$ C \rightarrow 210 $^{\circ}$ C, 1 $^{\circ}$ C/min
Carrier Gas : H₂, 115 kPa (1.15 bar, 16.7 psi), 48 cm/s
Injector : Splitter, 100 mL/min
T = 220 $^{\circ}$ C
Detector : FID, 8 x 10⁻¹² Afs
T = 220 $^{\circ}$ C
Sample Size : 1.0 μ L

Peak identification

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

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