# Fatty acid methyl esters, $C_{16}$ – $C_{20}$

Application Note

Materials Testing & Research


## Authors

Agilent Technologies, Inc.


## Introduction

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

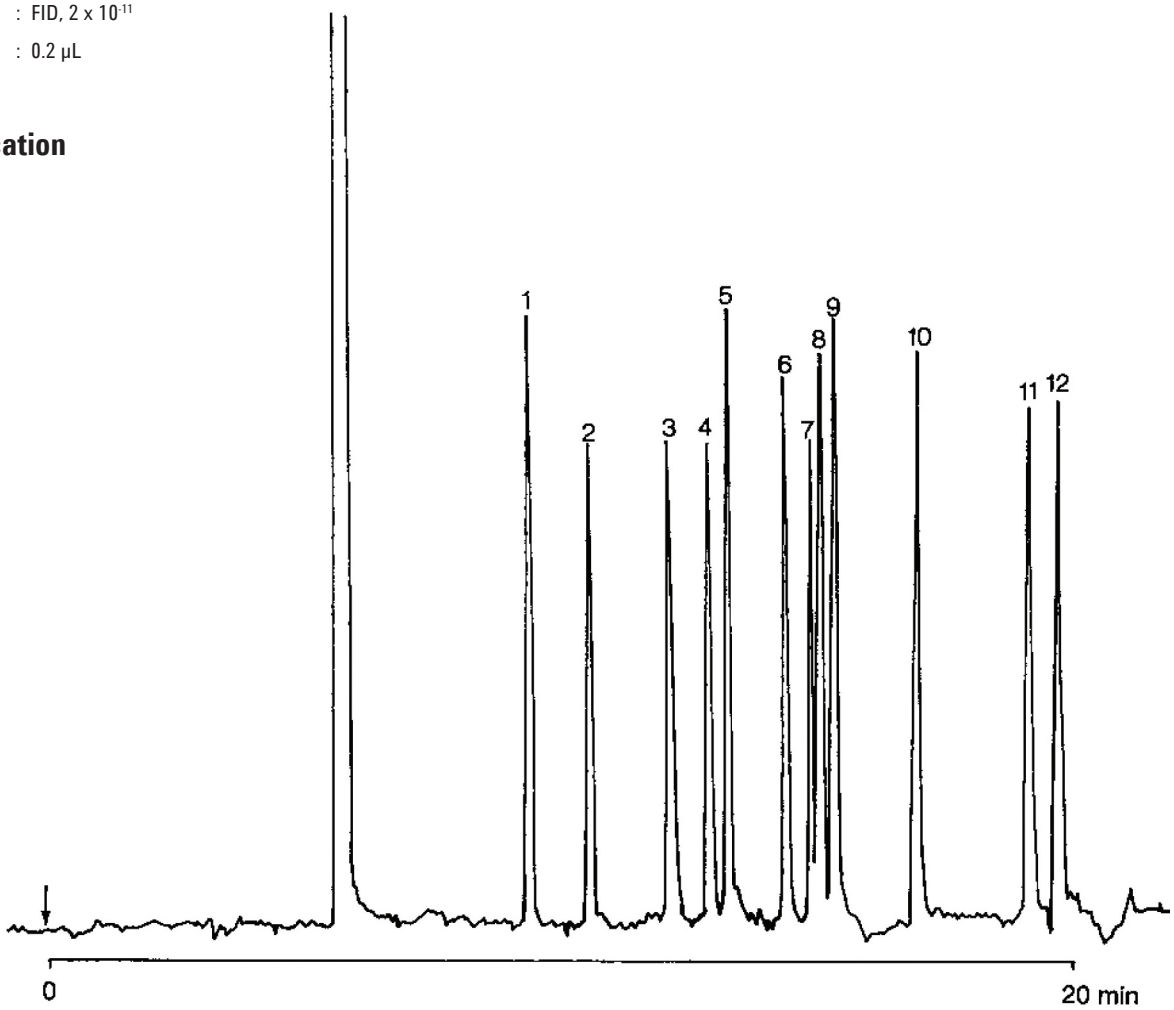
Agilent Technologies

## 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




**www.agilent.com/chem**


Printed in the USA
31 October, 2011
First published prior to 11 May, 2010
A00205

Agilent Technologies