FAME, C18:3 isomers

Application Note

Materials Testing & Research

Authors

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Introduction

The Agilent FactorFour VF-23ms GC column separates eight C18:3 FAME isomers in less than 13 minutes.

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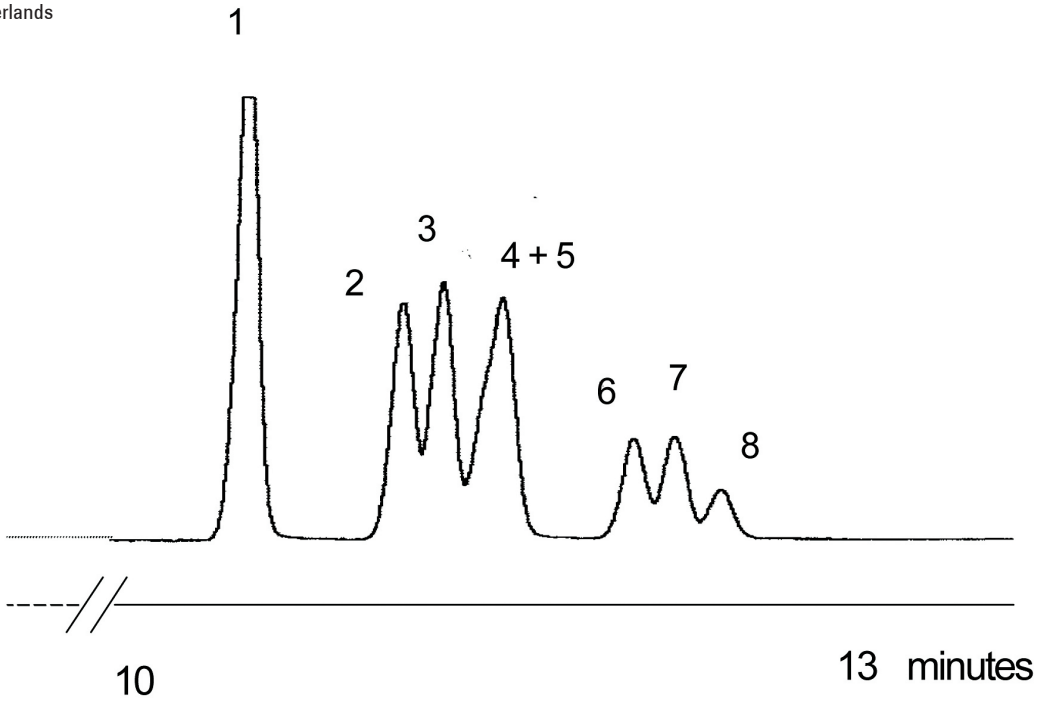
Conditions

Technique	:	GC
Column	:	Agilent VF-23ms, 0.25 mm x 30 m fused silica (df = 0.25 µm) (Part no. CP8822)
Temperature	:	155 °C
Carrier Gas	:	Hydrogen, 70 kPa
Injector	:	Split, 1:100 T = 275 °C
Detector	:	FID
Sample Size	:	0.5 µL
Concentration Range	:	ca. 5 ng per component on the column
Courtesy	:	J. Peene, Agilent R&D laboratories, Middelburg, The Netherlands

Peak identification

1. C18:3 trans, trans, trans
2. C18:3 trans, trans, cis
3. C18:3 trans, cis, trans
4. C18:3 cis, trans, trans
5. C18:3 cis, cis, trans
6. C18:3 cis, trans, cis
7. C18:3 trans, cis, cis
8. C18:3 cis, cis, cis



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