

Analysis of FAME in butter

Application Note

Food Testing & Agriculture

Authors

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Introduction

FAME components can be separated on several stationary phases. Highest resolution for FAME will be obtained using polar phases, like the Agilent CP-Sil 88. The Agilent CP-Select CB for FAME is a 100% bonded polar phase with a selectivity comparable to the CP-Sil 88, but with an unique stability as it is 100% immobilized. As a result the CP-Select CB for FAME has a uniquely high stability and can be used repeatedly with splitless or on-column injection techniques without loosing any efficiency. The bonded polar phase is also stable up to 290 °C, allowing a fast bake-out. Column bleed is very low providing excellent quantification for trace compounds, especially in combination with sensitive detectors like the different MS detection systems. Another characteristic of the CP-Select CB for FAME is the high loadability, which is at least a factor 3 higher allowing better separations for FAME isomers eluting close together.



Conditions

Technique : GC-capillary

Column : Agilent CP-Select CB for FAME, 0.25 mm x 50 m

fused silica WCOT (Part no. CP7419)

Temperature : 185 °C

Carrier Gas : He, 130 kPa (1.3 bar, 19 psi)

Injector : Split, 1:100

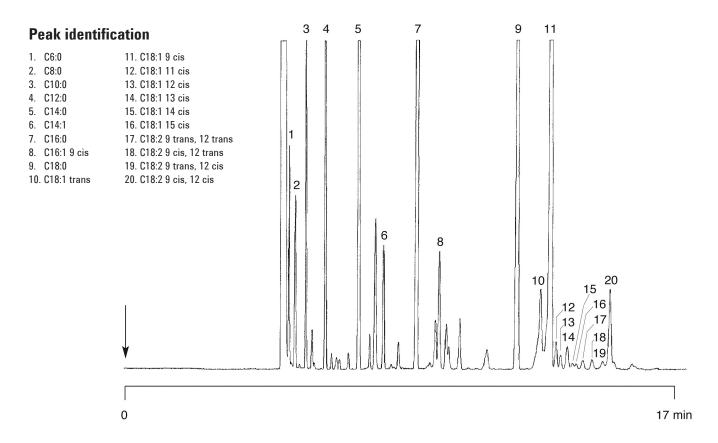
T = 250 °C

Detector : FID

T = 250 °C

Sample Size : 1 µL

Sample : butter (methylesters)



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This information is subject to change without notice.

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