

Separation of cis-trans FAME isomers

Application Note

Materials Testing & Research

Introduction

Agilent CP-Select CB for FAME is a highly polar capillary column with comparable selectivity for FAME as the Agilent CP-Sil 88. The bonded phase can be efficiently coated on long capillaries. For separating individual FAME trans isomers, highest separation efficiency is required. A 200 meter column was used for this application and results look very good as many trans fatty acids can be individually quantified. The CP-Select CB for FAME is stable up to 290 °C.

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Conditions

Technique	:	GC
Column	:	Agilent CP-Select CB for FAME, 0.25 mm x 200 m fused silica (Filmthickness: optimized) Part no. CP7421
Temperature	:	185 °C
Carrier Gas	:	Helium, 520 kPa
Injector	:	Split, 1:20 T = 250 °C
Detector	:	FID T = 250 °C
Sample Size	:	0.5 µL
Concentration Range	:	ca. 5 nanograms per component on the column



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