Biodiesel according to ASTM D6584

Application Note

Energy & Fuels

Authors

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Introduction

Analysis of biodiesel (fatty acid methyl esters) using Agilent VF-5ht with very low bleed at 380°C.

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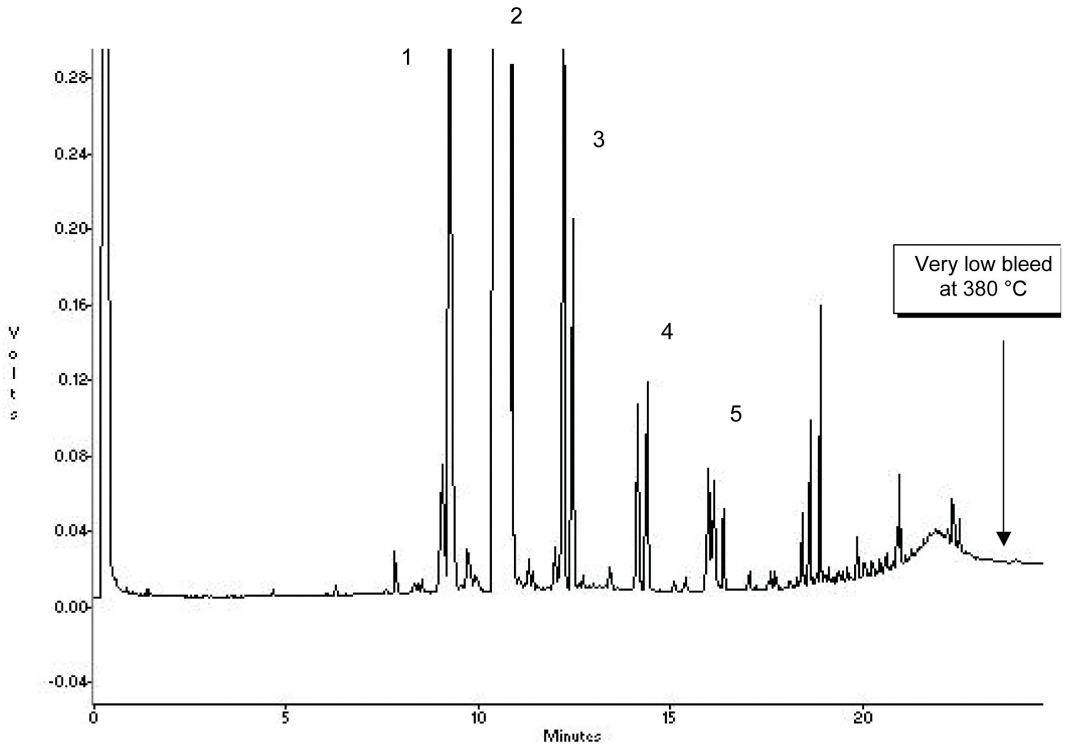
Conditions

Technique	:	GC-capillary
Column	:	Agilent FactorFour VF-5ht, 0.32 mm x 15 m fused silica (df = 0.10 µm) (Part no. CP9047)
Temperature	:	50 °C (1 min) ⟶ 180 °C, 15 °C/min, 7 °C ⟶ 230 °C, 30 °C ⟶ 380 °C
Carrier Gas	:	Helium, 60 kPa
Injector	:	Cold on-column, 1 µL
Detector	:	FID T = 380 °C
Sample Size	:	100 mg per 10 mL hexane
Courtesy	:	C. Duvekot, Agilent application laboratory, Middelburg, The Netherlands

Peak identification

1. C16:0
2. C18:0 18:1 18:2
3. C20:0 20:1
4. C22:0 22:1
5. C24:0 24:1



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