

ASTM D6584: Free and Total Glycerin in B-100 Biodiesel Methyl Esters

Column: Zebron™ ZB-5HT, GC Cap. Column 15 m x 0.32 mm x 0.10 μm, Ea
Phase: 5% Phenyl 95% Dimethylpolysiloxane
Dimensions: 15 meters x 0.32 mm x 0.1 μm
Order No: 7EM-G015-02
Oven Profile: 50 °C for 1 min. to 180 °C at 15 °C/min. to 230 °C at 7 °C/min. to 380 °C at 30 °C/min. for 10 min.

Carrier Gas: Constant Flow Helium, 3 mL/min
Injection: On-Column :1 1 μL @ 53°C
Detection: Flame Ionization (FID) (380°C)

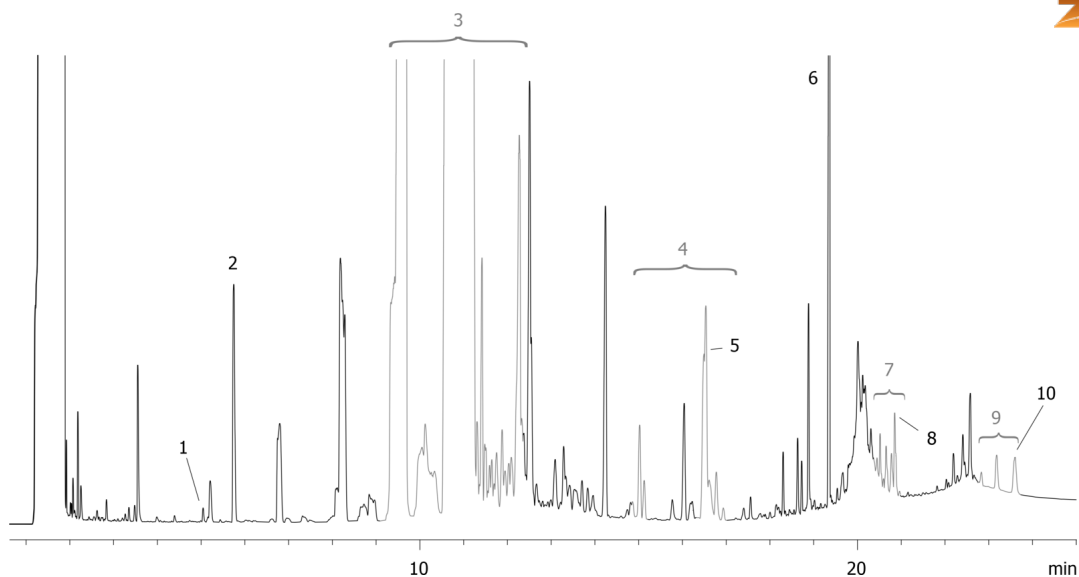
Analyst Note: A 2.0 m x 0.53 mm Guard Column was connected to the analytical column per ASTM method requirements.



Products used in this application:



16211



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ANALYTES:

- 1 Glycerol
- 2 Butanetriol (internal standard)
- 3 Ester
- 4 Monoglycerides
- 5 1-Monooleoyl-rac-glycerol
- 6 Tricaprin (internal standard)
- 7 Diglycerides
- 8 1,3-Diolein
- 9 Triglycerides
- 10 Triolein

