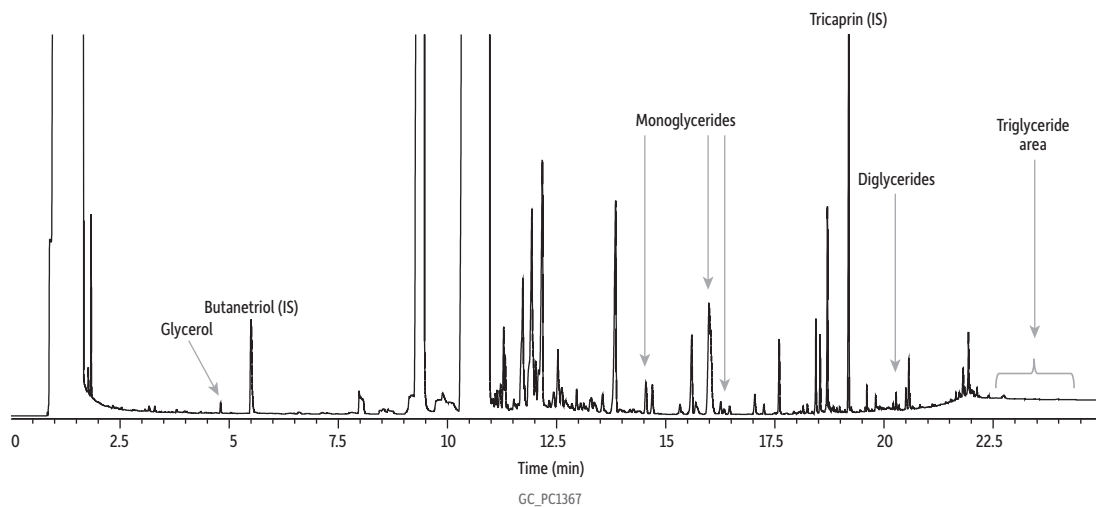


Impurities in Biodiesel on Rtx-Biodiesel TG by ASTM D6584



Peaks	tr (min)
1. Glycerol	4.80
2. 1,2,4-Butanetriol (IS)	5.50
3. Monoglycerides	as shown
4. Tricaprin (IS)	19.19
5. Diglycerides	20.16 - 20.9
6. Triglycerides	22.27 - 25.15

Column Standard/Sample Rtx-Biodiesel TG with 2 m x 0.53 mm ID retention gap, 15 m, 0.32 mm ID, 0.1 μ m (cat.# 10293)
Soy B100 biodiesel
Tricaprin (1,2,3-tricaprinoylglycerol) (cat.# 33025)
(s)-(-)-1,2,4-Butanetriol (cat.# 33024)

Diluent: Heptane

Injection
Inj. Vol.: 1 μ L cool on-column
Temp. Program: Track oven

Oven
Oven Temp.: 50 °C (hold 1 min) to 180 °C at 15 °C/min to 230 °C at 7 °C/min to 380 °C at 30 °C/min (hold 2 min)

Carrier Gas H₂, constant flow

Flow Rate: 2.7 mL/min

Detector FID @ 380 °C

Instrument Agilent 7890B GC

Sample Preparation Sample preparation followed ASTM D6584-17: Soy biodiesel B100 was fortified with internal standards (butanetriol and tricaprins) and derivatized using MSTFA.