Triglycerides

Determination of triglycerides on a fused silica capillary column

Application Note

Food Testing & Agriculture

Authors

Agilent Technologies, Inc.

Introduction

Gas chromatography using a custom-made Agilent CP-Sil 5 column separates 15 triglycerides in 30 minutes.

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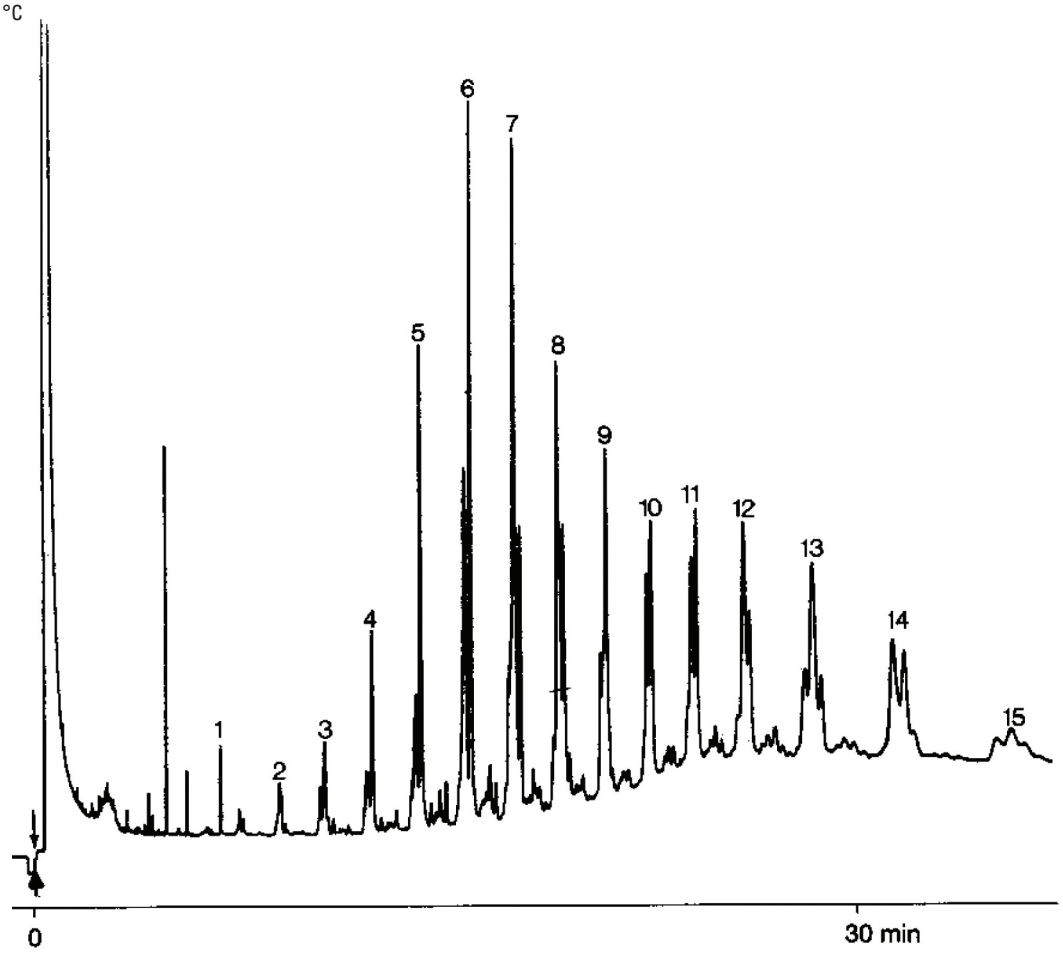
Conditions

Technique	: GC-capillary
Column	: Agilent CP-Sil 5, 0.32 mm x 10 m fused silica WCOT CP-Sil 5 (0.12 µm) (Custom-made) + 0.32 mm x 2 m PD - deactivated fused silica as retention gap
Temperature	: 70 °C → 240 °C, 50 °C/min → 340 °C, 5 °C/min
Carrier Gas	: H_2, 20 kPa (0.2 bar, 2.9 psi), 55 cm/s
Injector	: on-column
Detector	: FID T = 375 °C
Sample Size	: 0.2 µL

Peak identification

1. cholestane
2. C_{31}
3. C_{33}
4. C_{35}
5. C_{37}
6. C_{39}
7. C_{41}
8. C_{43}
9. C_{45}
10. C_{47}
11. C_{49}
12. C_{51}
13. C_{53}
14. C_{55}
15. C_{57}



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