



Crude oil (hydrocarbons $C_{10} - C_{40}$)

Separation of crude oil on a 100 μm fused silica capillary column

Application Note

Energy & Fuels

Authors

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Introduction

Gas chromatography using an Agilent CP-Sil 5 CB column separates 17 components in a sample of crude oil in 50 minutes.



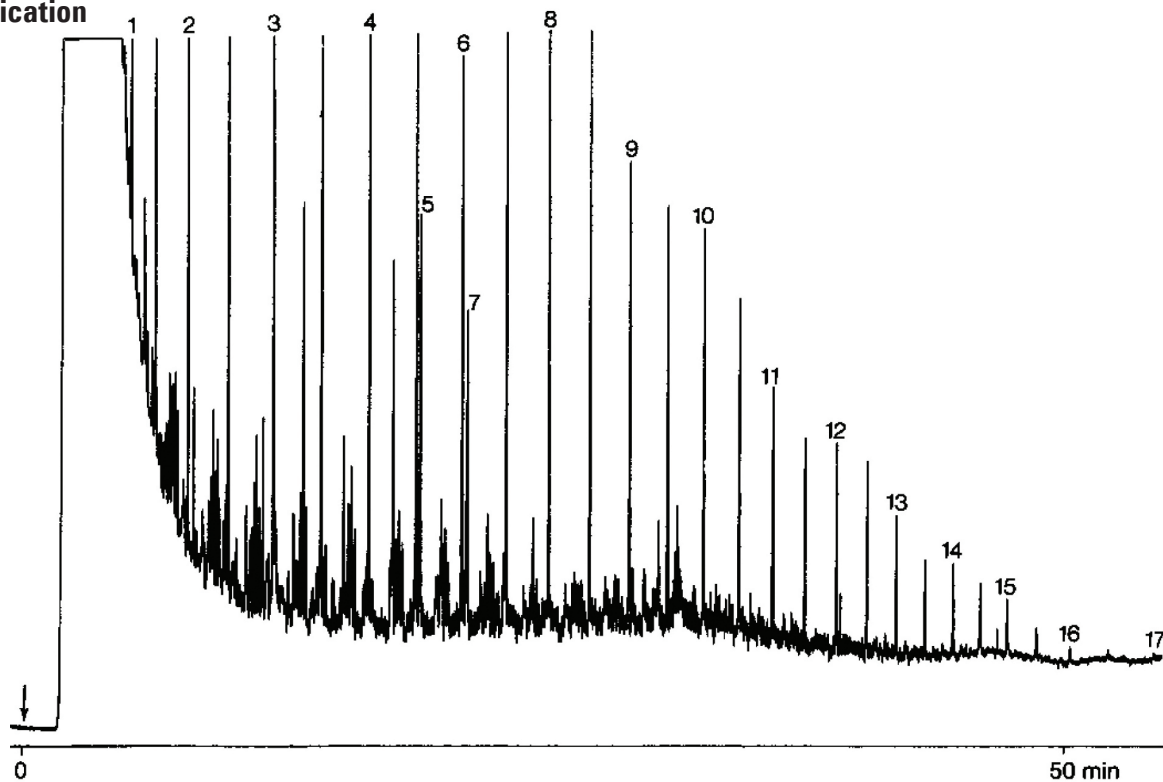
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Conditions

Technique : GC-capillary
Column : Agilent CP-Sil 5 CB, 0.10 mm x 10 m fused silica
WCOT CP-Sil 5 CB (0.12 μ m) (Part no. CP7780)
Temperature : 40 °C (1 min) \rightarrow 100 °C \rightarrow 315 °C, 5 °C/min
Carrier Gas : He, 220 kPa (2.2 bar, 32 psi), 10.5 cm/s
Injector : Splitless
T = 300 °C
Detector : FID, 2×10^{-12} Afs
T = 325 °C
Sample Size : 0.1 μ L

Peak identification

1. n-C₁₀
2. n-C₁₂
3. n-C₁₄
4. n-C₁₆
5. pristane
6. n-C₁₈
7. phytane
8. n-C₂₀
9. n-C₂₂
10. n-C₂₄
11. n-C₂₆
12. n-C₂₈
13. n-C₃₀
14. n-C₃₂
15. n-C₃₄
16. n-C₃₆
17. n-C₃₈



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