

Aromatics and C₁₀ – C₁₆ alkanes

Application Note

Materials Testing & Research

Authors

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Introduction

Gas chromatography using an Agilent CP-Sil 5 CB column separates 13 C₁₀ to C₁₆ alkanes in 15 minutes.



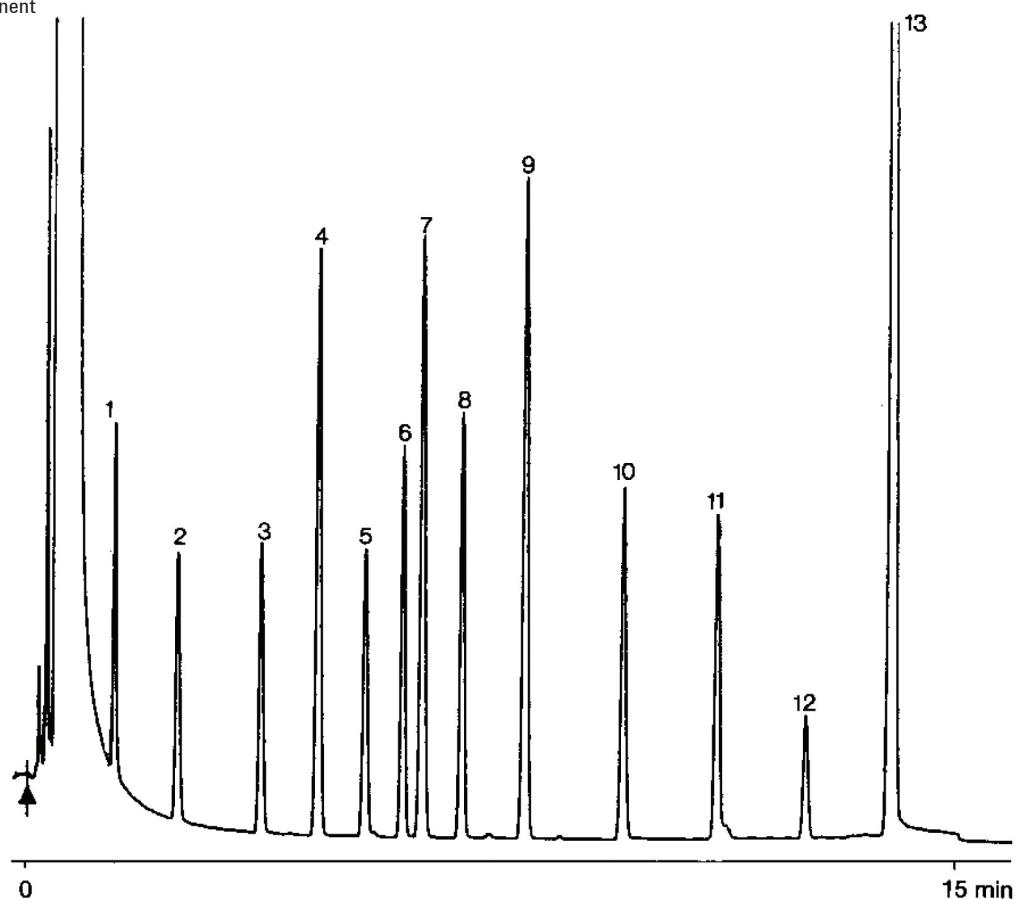
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Conditions

Technique : GC-capillary
Column : Agilent CP-Sil 5 CB, 0.32 mm x 10 m fused silica
WCOT CP-Sil 5 CB (5.0 μ m) (Custom-made)
Temperature : 60 °C \rightarrow 200 °C, 10 °C/min
Carrier Gas : He, 150 kPa (1.5 bar, 22 psi), 46 cm/s
Injector : On-column
Detector : FID, 32×10^{-12} Afs
T = 250 °C
Sample Size : 0.1 μ L
Concentration Range : 0.1 %/component
Solvent Sample : hexane

Peak identification

1. toluene
2. ethylbenzene
3. propylbenzene
4. n-decane
5. butylbenzene
6. 2,6-dimethylphenol
7. n-undecane
8. 2,6-dimethylaniline
9. n-dodecane
10. n-tridecane
11. n-tetradecane
12. n-pentadecane
13. n-hexadecane



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