



Alcohols and aromatics

Separation of aromatics and alcohol from gasoline

Application Note

Energy & Fuels

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Introduction

Gas chromatography using an Agilent TCEP column separates 15 aromatics and alcohol from gasoline in 28 minutes.



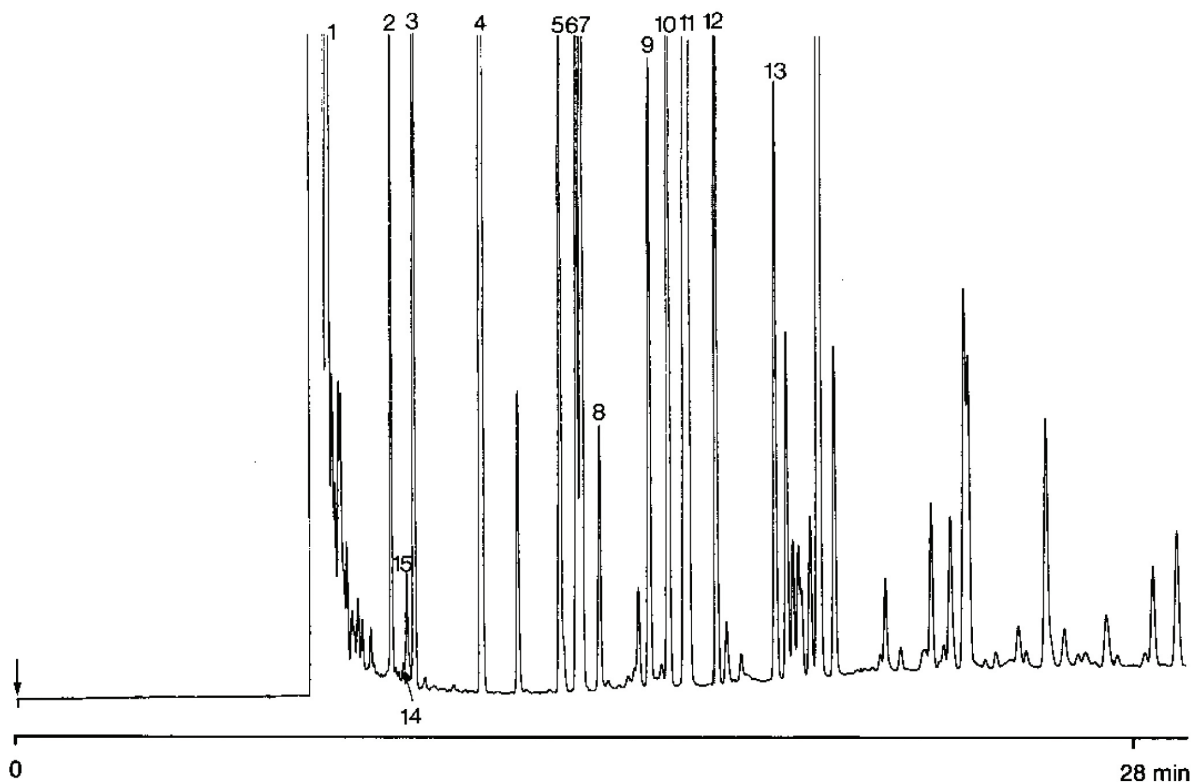
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Conditions

Technique : GC-capillary
Column : Agilent TCEP, 0.22 mm x 50 m fused silica
WCOT TCEP (0.4 μ m) (Part no. CP7525)
Temperature : 95 °C \rightarrow 120 °C, 2.5 °C/min
Carrier Gas : N₂, 90 kPa (0.9 bar), 12.2 cm/s
Injector : Splitter, 50 mL/min
Detector : FID, 4 x 10⁻¹² Afs
Sample Size : 0.2 μ L

Peak identification

1. aliphates
2. tert.-butanol
3. benzene
4. toluene
5. ethylbenzene
6. p-xylene
7. m-xylene
8. cumene
9. m-propylbenzene
10. 1-butanol
11. o-xylene
12. mesitylene
13. 2-ethyltoluene
14. methanol
15. isopropanol/n-dodecane



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