Alcohols, C_1 – C_4, aromatic hydrocarbons, C_5 – C_7

Analysis of gasoline

Application Note

Energy & Fuels

Authors

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Introduction

Gas chromatography using an Agilent CP-TCEP for Alcohols in Gasoline column separates 11 C_1 to C_4 alcohols and C_5 to C_7 aromatics in gasoline in 27 minutes.

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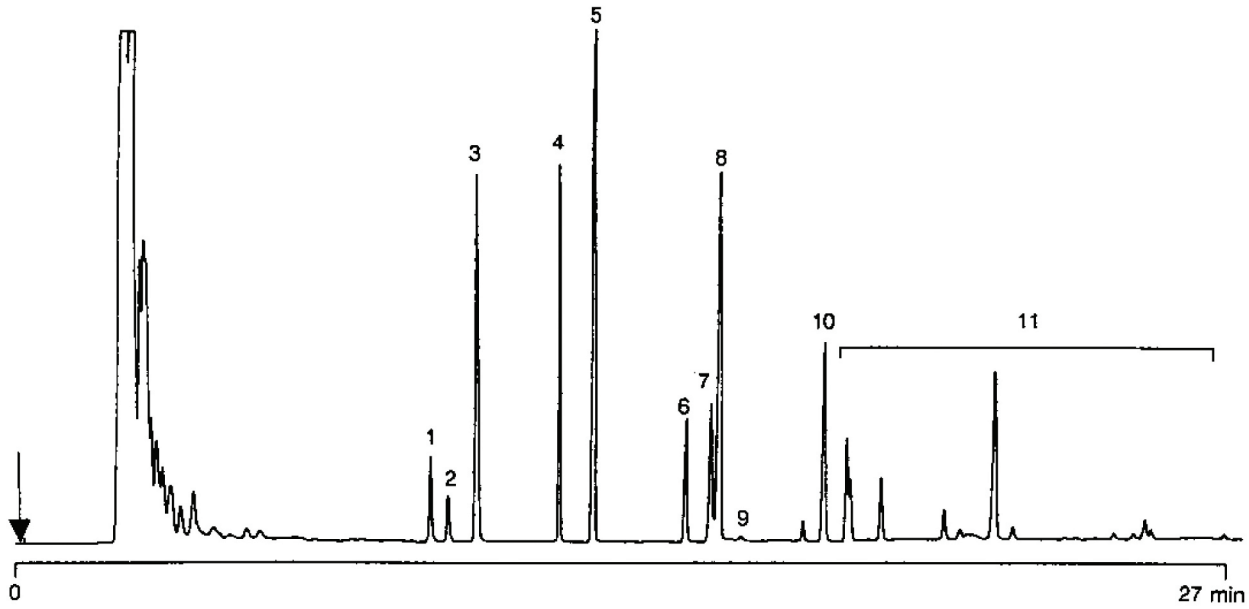
Conditions

Technique	: GC-capillary
Column	: Agilent CP-TCEP, 0.25 mm x 50 m fused silica WCOT TCEP for gasolines (df = 0.4 µm) (Part no. CP7525)
Temperature	: 70 °C (10 min) ⟶ 120 °C, 5 °C/min; 120 °C (8 min)
Carrier Gas	: N_2, 90 kPa (0.9 bar, 13 psi)
Injector	: Splitter, 50 mL/min
Detector	: FID
Sample Size	: 0.5 µL

Courtesy : Mr Frischman,
BMW Dingolfing, Germany

Peak identification

1. t-butanol
2. methanol
3. benzene
4. methyl ethyl ketone (I.S.)
5. toluene
6. ethylbenzene
7. p-xylene
8. m-xylene
9. n-butanol
10. o-xylene
11. aromatic hydrocarbons (Solvesso-100)



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