Alcohols, $C_1 - C_6$, and aromatic hydrocarbons, $C_6 - C_9$

Application Note

Energy & Fuels

Authors

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Introduction

Gas chromatography with an Agilent CP-TCEP for Alcohols in Gasoline column separates 12 alcohols and aromatic hydrocarbons in a test mixture in 16 minutes.
**Conditions**

- **Technique**: GC-capillary
- **Column**: Agilent CP-TCEP, 0.25 mm x 50 m fused silica TCEP (0.4 µm) (Part no. CP7525)
- **Temperature**: 80 °C isotherm
- **Carrier Gas**: H₂, 60 kPa (0.6 bar, 8.4 psi) 44.8 cm/s
- **Injector**: Split, 200 mL/min T = 170 °C
- **Detector**: FID, $1 \times 10^{-11}$ Afs
- **Sample Size**: 0.6 µL

**Peak identification**

1. n-undecane
2. methanol
3. iso-propanol
4. benzene
5. ethanol
6. toluene
7. 1-propanol
8. ethylbenzene
9. 1-butanol
10. n-propylbenzene
11. n-pentanol
12. n-hexanol