Alcohols, alkanes
Separation of $\text{C}_{11} \text{ to } \text{C}_{13}$ alkanes and $\text{C}_{1} \text{ to } \text{C}_{4}$ alcohols

Application Note

Energy & Fuels

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Introduction
Gas chromatography using an Agilent TCEP column separates seven $\text{C}_{11}$ to $\text{C}_{13}$ alkanes and $\text{C}_{1}$ to $\text{C}_{4}$ alcohols in 15 minutes.
Conditions

Technique: GC-capillary
Column: Agilent TCEP, 0.22 mm x 50 m fused silica
PLOT TCEP (0.4 µm) (Part no. CP7525)
Temperature: 90 °C
Carrier Gas: N₂, 90 kPa (0.9 bar), 12.2 cm/s
Injector: Splitter, 60 mL/min
Detector: FID, $8 \times 10^{-12}$ Afs
Sample Size: 0.1 µL
Solvent Sample: n-hexane

Peak identification

1. n-undecane
2. tert.-butanol
3. methanol
4. isopropanol
5. n-dodecane
6. n-tridecane
7. n-butanol