Hydrocarbons, C$_5$ – C$_6$

Analysis of naphtha spiked with 200 ppm MTBE

Application Note

Energy & Fuels

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Introduction
Gas chromatography with an Agilent CP-Select 624 CB for MTBE column analyzes naphtha spiked with 200 ppm MTBE in six minutes.
Conditions

Technique: GC-capillary

Column: Agilent CP-Select 624 CB for MTBE, 0.25 mm x 50 m fused silica WCOT CP-Select CB (df = 0.25 μm) (Part no. CP7528)

Temperature: 35 °C (6 min) → 180 °C, 20 °C/min

Carrier Gas: He, 100 kPa (1.75 bar, 14.5 psi)

Injector: Split, 100 mL/min
T = 250 °C

Detector: FID
T = 275 °C

Injection Volume: 0.05 μL

Peak identification

1. pentane
2. cyclohexane
3. hexane
4. methyl tert.butyl ether (MTBE)
5. cyclopentane