Hydrocarbons, \( C_5 - C_6 \)
Analysis of gasoline mixed with MTBE (1:1)

Application Note

Energy & Fuels

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Introduction
Gas chromatography with an Agilent CP-Select 624 CB for MTBE column analyzes gasoline spiked with 1:1 MTBE in four 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 (4 min) → 200 °C, 20 °C/min

Carrier Gas: He, 100 kPa (1.0 bar, 14.5 psi)

Injector: Split, 100 mL/min

T = 250 °C

Detector: FID

T = 275 °C

Peak identification

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