Sulfur odorants in natural gas

Application Note

Energy & Fuels

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Introduction
Fast GC analysis of THT and TBM in natural gas in under two minutes using an Agilent Lowox column.
Conditions

Technique: GC-capillary
Column: Agilent Lowox, 0.53mm x 10 m fused silica (Part no. CP8987)
Temperature: 120 °C
Carrier Gas: He, 15 mL/min
Injector: Split, 50 mL/min
Detector: FID, T = 250°C
Sample Size: 250 μL
Concentration: TBM and THT 5 ppm in natural gas

Courtesy: J. Kuipers and N. Reuter,
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Peak identification
1. TBM  tributyl mercaptan
2. THT  tetrahydrothiophene