Sulfur compounds

Application Note

Environmental

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Introduction
Gas chromatography with an Agilent CP-Sil 5 CB for Sulfur column separates four sulfur compounds in ten minutes.
Conditions

Technique: GC-capillary
Column: Agilent CP-Sil 5 CB for sulfur, 0.32 mm x 30 m fused silica WCOT CP-Sil 5 CB (df = 4 μm)
(Part no. CP7526)
Temperature: 100 °C (2 min) → 210 °C, 15 °C/min
Carrier Gas: He, 140 kPa (1.4 bar, 20 psi)
Injector: Split, T = 250 °C, split ratio 1:20
Detector: SCD, reaction temp., 800 °C
Sample Size: 1 μL
Solvent Sample: hexane

Peak identification chromatogram A:
1. dimethyl sulfide 853 ppm w/w
2. propyl mercaptan 756 ppm
3. dimethyl disulfide 203 ppm
4. diethyl disulfide 126 ppm

Peak identification chromatogram B:
1. dimethyl sulfide 43 ppm
2. ethyl methyl sulfide 154 ppm
3. thiophene 609 ppm

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This information is subject to change without notice.
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