Sulfur compounds

Analysis of sulfur compounds in natural gas

Application Note

Energy & Fuels

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Introduction

Gas chromatography using an Agilent CP-Sil 5 CB UltiMetal column separates sulfur compounds in natural gas in eight minutes.

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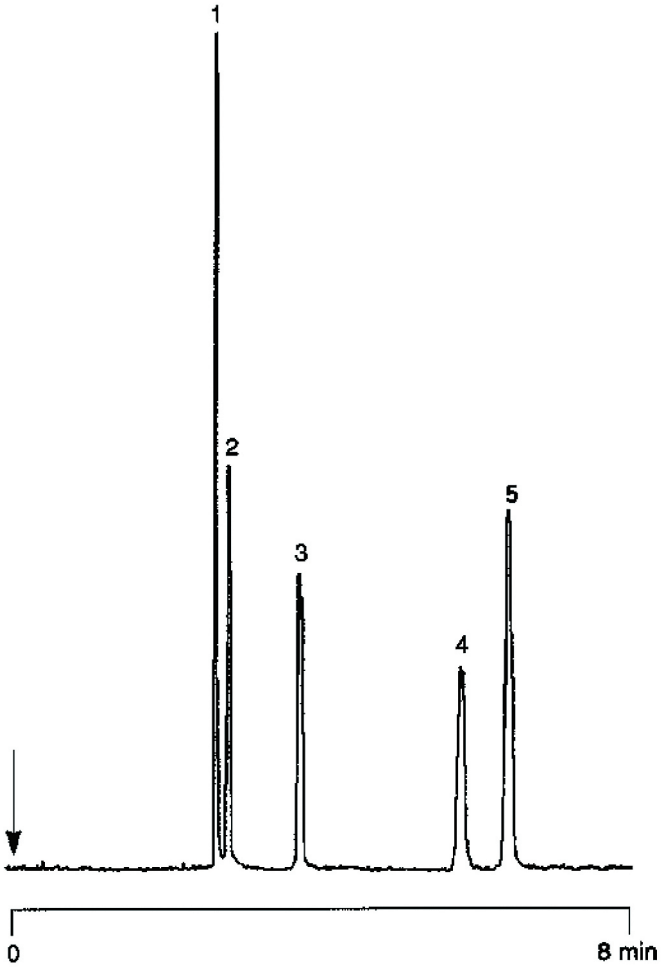
Conditions

Technique	:	GC-wide-bore
Column	:	Agilent CP-Sil 5 CB Ultimetal, 0.53 mm x 50 m, (df = 5 µm) (Part no. CP6670)
Temperature	:	35 °C
Carrier Gas	:	He, 150 kPa (1.5 bar, 21 psi)
Injector	:	Valve
Detector	:	Sievers SCD 355
Sample Size	:	10 µL
Concentration Range	:	± 6 ppm/component

Peak identification

1. hydrogen sulfide
2. carbonyl sulfide
3. methanethiol (methyl mercaptan)
4. ethanethiol (ethyl mercaptan)
5. carbon disulfide



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