



Sulfur compounds

Analysis of C₁₂-C₆₀ wax plus sulfur standard

Application Note

Materials Testing & Research

Authors

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Introduction

Gas chromatography with an Agilent CP-SimDist UltiMetal column separates 13 C₁₂ to C₆₀ waxes plus a sulfur standard in 16 minutes.



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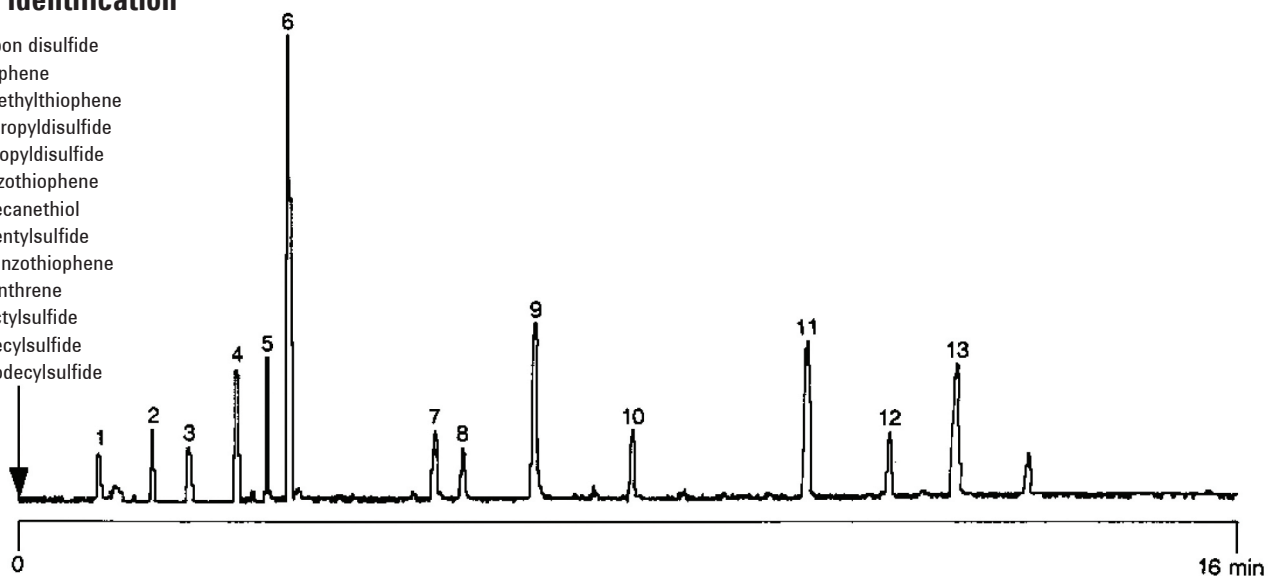
Conditions

Technique : GC-capillary
Column : Agilent CP-SimDist UltiMetal, 0.5 mm x 10 m
UltiMetal WCOT CP-SimDist CB (df = 0.5 µm)
(Part no. CP7592)
Temperature : 35 °C → 350 °C, 15 °C/min,
350 °C → 380 °C, 6 °C/min
Injector : SPI-injector
T = 50 °C to 380 °C, 50 °C/min
Detector : Sievers 350 SLD
Sample Size : 0.2 µL
Concentration Range : 1 - 4 mg/L
Solvent Sample : cyclohexane

Courtesy : Sievers Research,
Mr. Neil Johanson, U.S.A

Peak identification

1. carbon disulfide
2. thiophene
3. 3-methylthiophene
4. isopropylsulfide
5. n-propylsulfide
6. benzothiophene
7. n-decanethiol
8. n-pentylsulfide
9. dibenzothiophene
10. thianthrene
11. n-octylsulfide
12. n-decylsulfide
13. n-dodecylsulfide



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