Sulfur compounds

Analysis of $C_{12}-C_{60}$ wax plus sulfur standard

Application Note

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Introduction
Gas chromatography with an Agilent CP-SimDist UltiMetal column separates 13 $C_{12}$ to $C_{60}$ waxes plus a sulfur standard in 16 minutes.
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. isopropyl disulfide
5. n-propyl disulfide
6. benzothiophene
7. n-decanethiol
8. n-pentyl sulfide
9. dibenzothiophene
10. thianthrene
11. n-octyl sulfide
12. n-decyl sulfide
13. n-dodecyl sulfide

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