Halogenated aromatic hydrocarbons
Separation of fluorotoluene isomers

Application Note

Environmental

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Introduction
A baseline separation of 2-, 3- and 4-fluorotoluene isomers can be achieved on a chiral selective stationary phase. These substances can be used as raw material in the synthesis of plant protection products. Other polar phases cannot separate these isomers.
Conditions

Technique : GC-capillary
Column : Agilent CP-Chirasil-Dex CB, 0.25 mm x 25 m fused silica WCOT (df = 0.25 μm) (Part no. CP7502)
Temperature : 30 °C
Carrier Gas : N₂, 100 kPa (1 bar, 14 psi)
Injector : Split, ca. 1:20,
T = 150 °C
Detector : FID,
T = 150 °C
Sample Size : 0.2 μL
Concentration Range : 0.1% level
Solvent Sample : methanol

Peak identification

1. 2-fluorotoluene
2. 3-fluorotoluene
3. 4-fluorotoluene