

# Halogenated aromatic hydrocarbons

## Separation of fluorotoluene isomers

### Application Note

Environmental

#### Authors

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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.



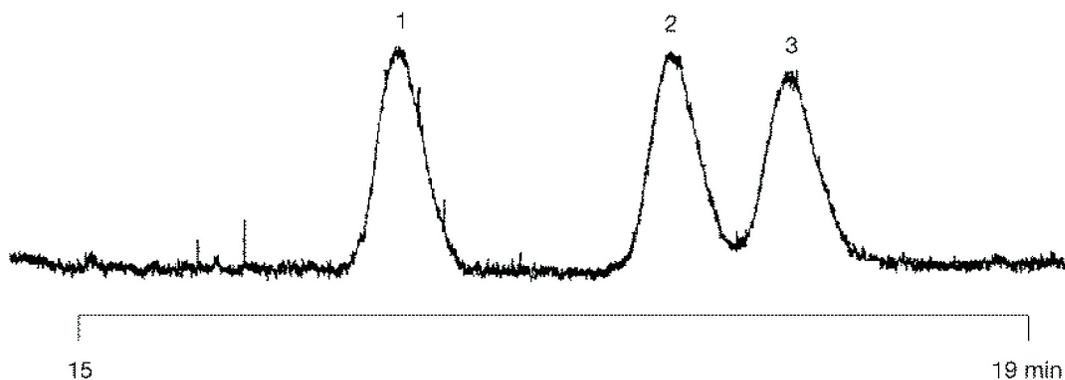
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## Conditions

Technique : GC-capillary  
Column : Agilent CP-Chirasil-Dex CB, 0.25 mm x 25 m fused silica WCOT (df = 0.25  $\mu$ m) (Part no. CP7502)  
Temperature : 30  $^{\circ}$ C  
Carrier Gas : N<sub>2</sub>, 100 kPa (1 bar, 14 psi)  
Injector : Split, ca. 1:20,  
T = 150  $^{\circ}$ C  
Detector : FID,  
T = 150  $^{\circ}$ C  
Sample Size : 0.2  $\mu$ L  
Concentration Range : 0.1% level  
Solvent Sample : methanol

## Peak identification

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



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This information is subject to change without notice.

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