Basic aromatic compounds
Analysis of basic aromatic compounds

Application Note

Environmental

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Introduction
Using GC/MS, an Agilent FactorFour VF-200ms column separates eight basic aromatics in 25 minutes.
Conditions

Technique: GC

Column: Agilent FactorFour VF-200ms, 0.25 mm x 30 m (df = 1.0 μm) (Part no. CP8860)

Temperature: 45 °C, 3 min 10 °C/min → 325 °C

Carrier Gas: Hydrogen 1.0 mL/min

Pressure program: 60 kPa

Injector: Split/Splitless, in split mode, 1:100

Detector: FID

Sample Size: 1 μL

Solvent: methylene chloride, 2000 μg/mL

Courtesy: Jan Peene, Agilent Application Laboratory, Middelburg, The Netherlands

Peak identification

1. 4-chloroaniline
2. 2-methylnaphthalene
3. 2-nitroaniline
4. dibenzofuran
5. 3-nitroaniline
6. 4-nitroaniline
7. carazole
8. 3,3'-dichlorobenzidine