Basic aromatic compounds

Application Note

Environmental

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Introduction
For GC separation of eight basic aromatics in 30 minutes use the stabilized 50% phenyl PDMS phase of an Agilent VF-17ms column.
Conditions

Technique: GC

Column: Agilent VF-17ms, 0.25 mm x 30 m fused silica (df = 0.25 μm) (Part No. CP8982)

Temperature: 50 °C + 10 °C/min → 300 °C

Carrier Gas: Helium, 70 kPa

Injector: Splitter, 1:100

Detector: FID

Sample Size: 1 μL

Concentration Range: 200 µg/mL

Courtesy: J. Peene, Agilent application laboratory, Middelburg, The Netherlands

Peak identification

1. 4-chloroaniline
2. 2-methyl naphthalene
3. 2-nitroaniline
4. dibenzofuran
5. 3-nitroaniline
6. 4-nitroaniline
7. carbazole
8. 3,3'-dichlorobenzidine