Phenols
Analysis of acidic aromatic compounds

Application Note

Environmental

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Introduction
An Agilent FactorFour VF-200ms GC column separates three phenols in 13 minutes by gas chromatography.
Conditions

Technique: GC
Column: Agilent FactorFour VF-200ms, 0.25 mm x 30 m (df = 0.25 μm) (Part no. CP8858)
Temperature: 45 °C, 10 °C/min → 325 °C
Carrier Gas: Helium, ca. 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. 2-methylphenol
2. 4-methylphenol
3. benzoic acid
4. 2,4,5-trimethylphenol