Analysis of chlorinated phenols

Application Note

Environmental

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Introduction
GC/MS separation of six chlorinated phenols using an Agilent CP-Volamine column is achieved in 30 minutes.
Conditions

Technique: GC
Column: Agilent CP-Volamine, 0.32 mm x 30 m fused silica (optimized film thickness) Part no. CP7447
Temperature: 40 °C (2 min) → 250 °C, 10 °C/min
Carrier Gas: Helium, 3 Psi
Injector: Split
Detector: MS
Sample Size: 0.5 μL
Concentration Range: approx. 5 ng on the column per component

Courtesy: Jim Luong and Paige Spencer, Dow Chemical Canada

Peak identification
1. phenol
2. 2-chlorophenol
3. 2,6-dichlorophenol
4. 1,1,2-trichloroethane
5. tetrachloroethane
6. pentachlorobenzene

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