Solvents
Separation of amines

Application Note

Environmental

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Introduction
Gas chromatography with an Agilent CP-Select 624 CB column separates 11 amines in 12 minutes.

The unique selectivity of the CP-Select 624 CB stationary phase enables separation of almost any type of solvent.
Conditions

Technique  : GC-wide-bore

Column      : Agilent CP-Select 624 CB fused silica WCOT
              30 m x 0.53 mm, fused silica WCOT (df = 3.0 μm)
              (Part no. CP7416)

Temperature : 50 °C → 200 °C. 10 °C/min

Carrier Gas : N₂, 10 mL/min

Injector    : Direct,
              T = 250 °C

Detector    : FID
              T = 250 °C

Sample Size : 0.02 μL

Solvent Sample : solvents mixture

Peak identification

1. isopropyl amine
2. diethylamine
3. diisopropylamine
4. triethylamine
5. 2-methoxyethylamine
6. dipropylamine
7. tetrachloroethylene (solvent)
8. morpholine
9. cyclohexylamine
10. tripropylamine
11. tributylamine