Amines, $C_1 - C_6$
Analysis of volatile amines

Application Note

Environmental

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Introduction
Gas chromatography with an Agilent PoraPLOT for amines column separates ten volatile amines in ten minutes.
Conditions

Technique : GC-capillary

Column : Agilent PoraPLOT for amines, 0.32 mm x 25 m fused silica PLOT PoraPLOT (df = 10 μm)
(Part no. CP7591)

Temperature : 130 °C (5 min) → 220 °C, 30 °C/min

Carrier Gas : He, 200 kPa (2 bar, 28 psi)

Injector : Splitter, 1:20
T = 200 °C

Detector : PND,
T = 260 °C

Sample Size : 2.0 μL

Concentration Range : 1 mg/L

Solvent Sample : water

Courtesy : H. Langschmidt, Institut Fresenius, Dortmund, Germany

Peak identification

1. methylamine
2. dimethylamine
3. trimethylamine
4. ethylamine
5. dimethylethylamine
6. diethylamine
7. methylidihethylamine
8. dimethylisopropylamine
9. triethylamine
10. dimethylbutylamine

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