Amines, C₆ – C₁₆

Application Note

Materials Testing & Research

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Introduction
Gas chromatography with an Agilent CP-Sil 8 CB for Amines column separates di- and trialkylamines in 50 minutes.
**Conditions**

**Technique**: GC-capillary

**Column**: Agilent CP-Sil 8 CB for Amines fused silica, 0.25 mm x 30 m WCOT (df = 0.5 μm)
(Part no. CP7595)

**Temperature**: 50 °C (5 min) - 220 °C, 4 °C/min

**Carrier Gas**: H₂, 60 kPa (0.6 bar, 8.6 psi)

**Injector**: Split, 100 mL/min  
T = 200 °C

**Detector**: FID  
T = 285 °C

**Sample Size**: 1 μL

**Concentration Range**: 20 - 30 ng

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**Peak identification**

1. diethylamine  
2. triethylamine  
3. di-n-propylamine  
4. tri-n-propylamine  
5. di-n-butylamine  
6. tri-n-butylamine  
7. dicyclohexylamine  
8. di-n-hexylamine  
9. tri-n-hexylamine

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