



Primary, secondary, tertiary amines $C_3 - C_6$

Separation of underivatized volatile amines on a wide-bore fused silica column

Application Note

Materials Testing & Research

Authors

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Introduction

Gas chromatography using an Agilent CP-Sil 5 CB column separates six underivatized C_3 to C_6 volatile amines in ten minutes.



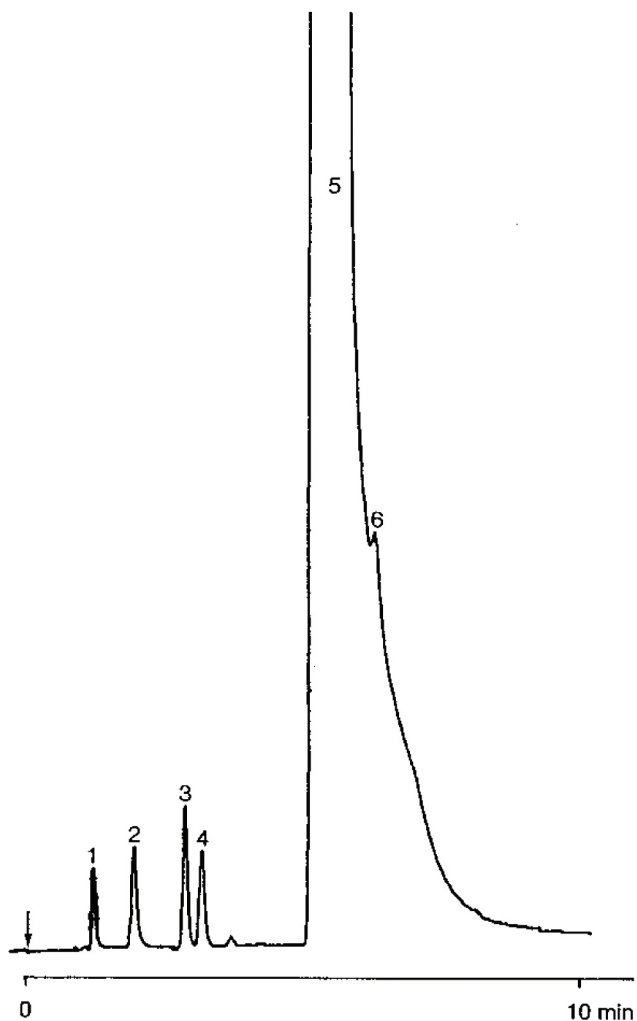
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Conditions

Technique : GC-capillary
Column : Agilent CP-Sil 5 CB, 0.53 mm x 10 m fused silica
WCOT CP-Sil 5 CB (5.0 μm) (Part no. CP7645)
Temperature : 50 $^{\circ}\text{C}$ \rightarrow 200 $^{\circ}\text{C}$, 5 $^{\circ}\text{C}/\text{min}$
Carrier Gas : N_2 , 10 kPa (0.1 bar), 52 cm/s
Injector : direct
T = 300 $^{\circ}\text{C}$
Detector : FID, 100×10^{-12} Afs
T = 275 $^{\circ}\text{C}$
Sample Size : 0.2 μL
Solvent Sample : tetrachloroethene (perchloroethylene)

Peak identification

1. isopropylamine
2. diethylamine
3. diisopropylamine
4. triethylamine
5. tetrachloroethene
6. cyclohexylamine



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This information is subject to change without notice.

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Printed in the USA

31 October, 2011

First published prior to 11 May, 2010

A00012



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