Amines

Separation of several amines and alkanes

Application Note

Materials Testing & Research

Authors

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Introduction

Gas chromatography using an Agilent CP-Wax 51 for Amines column separates six amines and alkanes in 20 minutes.

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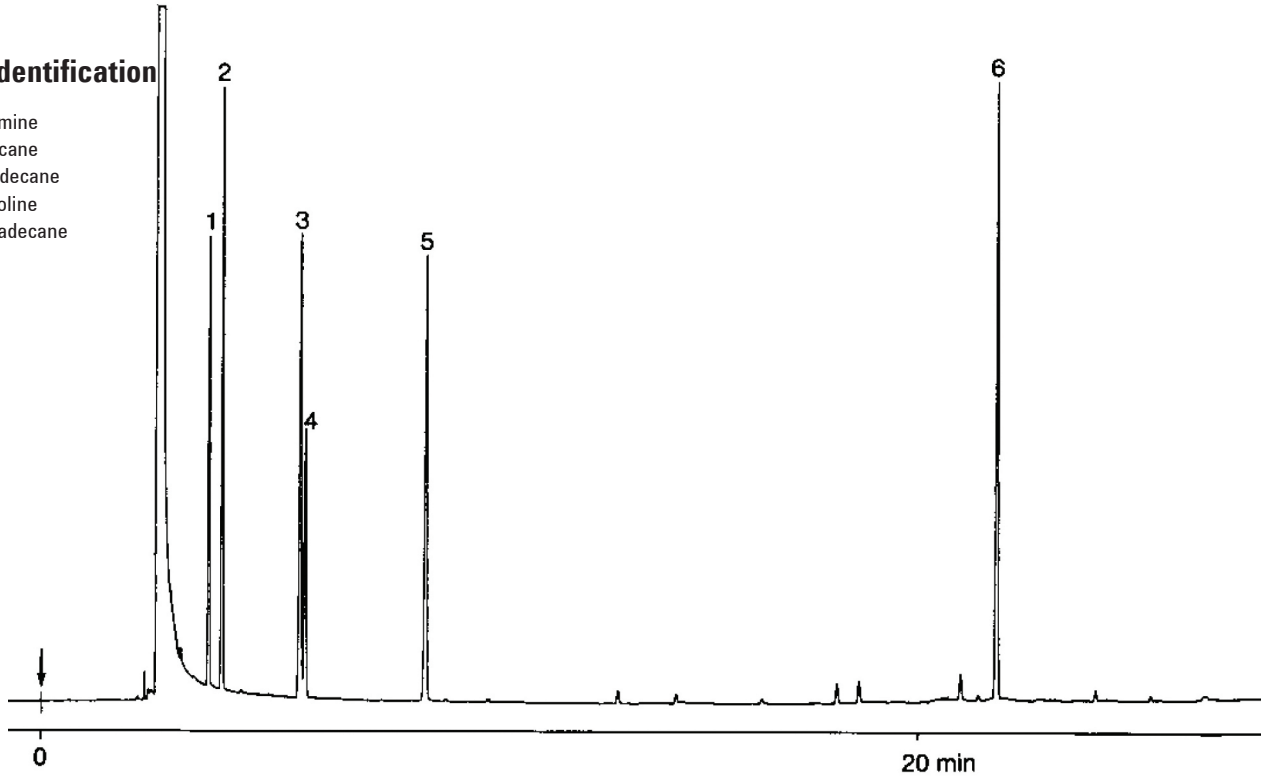
Conditions

Technique	:	GC-capillary
Column	:	Agilent Cp-Wax 51, 0.22 mm x 25 m fused silica WCOT CP-Wax 51 for amines (0.2 µm) (Part no. CP7405)
Temperature	:	70 °C → 200 °C, 5 °C/min
Carrier Gas	:	N_2, 60 kPa (0.6 bar, 8.7 psi), 19 cm/s
Injector	:	Splitter, 60 mL/min T = 225 °C
Detector	:	FID, 16 x 10^{-12} Afs T = 225 °C
Sample Size	:	0.1 µL
Solvent Sample	:	hexane

Peak identification

1. hexylamine
2. n-tridecane
3. n-tetradecane
4. morpholine
5. n-pentadecane
6. aniline



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