Volatile amines

Application Note

Materials Testing & Research

Authors

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Introduction

Gas chromatography using an Agilent CP-Wax 51 for Amines column separates nine volatile amines in 20 minutes.

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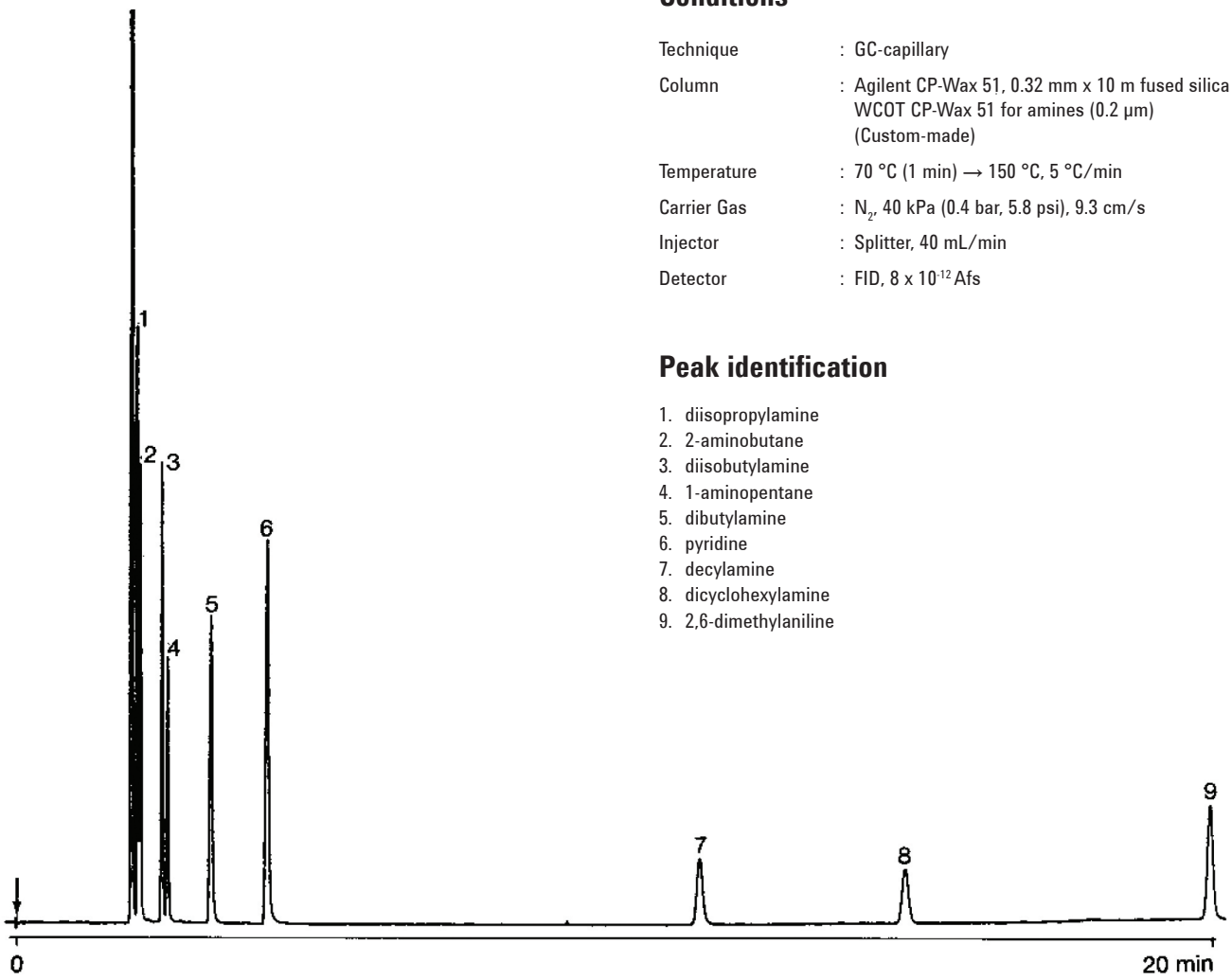

Conditions

Technique	:	GC-capillary
Column	:	Agilent CP-Wax 51, 0.32 mm x 10 m fused silica WCOT CP-Wax 51 for amines (0.2 µm) (Custom-made)
Temperature	:	70 °C (1 min) ⟶ 150 °C, 5 °C/min
Carrier Gas	:	N_2, 40 kPa (0.4 bar, 5.8 psi), 9.3 cm/s
Injector	:	Splitter, 40 mL/min
Detector	:	FID, 8 x 10^{-12} Afs

Peak identification

1. diisopropylamine
2. 2-aminobutane
3. diisobutylamine
4. 1-aminopentane
5. dibutylamine
6. pyridine
7. decylamine
8. dicyclohexylamine
9. 2,6-dimethylaniline

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