Nitrosamines

Analysis of nitrosoamines to EPA 607

Application Note

Environmental

Authors

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Introduction

Gas chromatography with an Agilent CP-Wax 51 for Amines column separates nine nitrosamines according to EPA 607 in 18 minutes.

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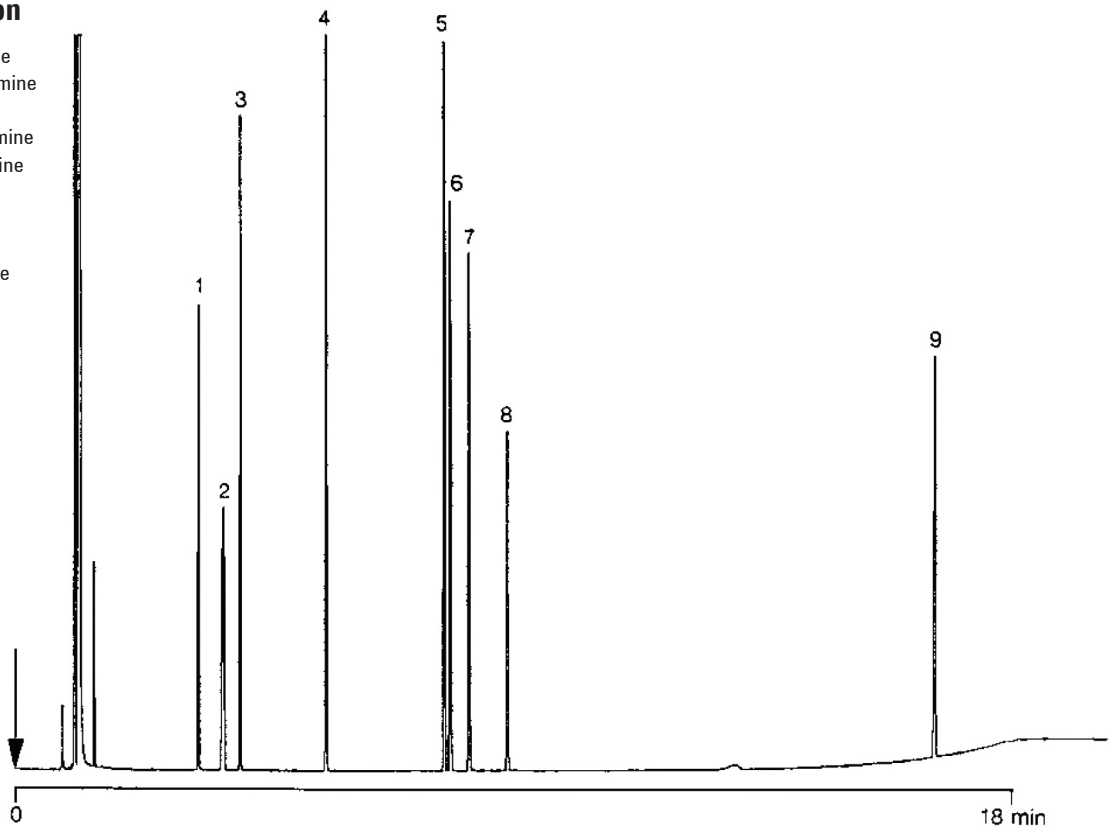
Conditions

Technique	:	GC-capillary
Column	:	Agilent CP-Wax 51 for Amines, 0.25 mm x 25 m fused silica WCOT CP-Wax 51 (df = 0.2 µm) (Part no. CP7405)
Temperature	:	60 °C → 240 °C, 10 °C/min
Carrier Gas	:	H_2, 75 kPa (0.75 bar, 10.5 psi)
Injector	:	Split, 100 mL/min T = 265 °C
Detector	:	FID T = 300 °C

Peak identification

1. N-nitrosodimethylamine
2. N-nitrosomethylethylamine
3. N-nitrosodiethylamine
4. N-nitroso di-n-propylamine
5. N-nitroso di-n-butylamine
6. N-nitrosopiperidine
7. N-nitrosopyrrolidine
8. N-nitrosomorpholine
9. N-nitrosodiphenylamine



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