



Nitrosamines

Application Note

Environmental

Authors

Agilent Technologies, Inc.

Introduction

Analysis of nine nitrosamines by gas chromatography using an Agilent FactorFour VF-1301ms column in 22 minutes.



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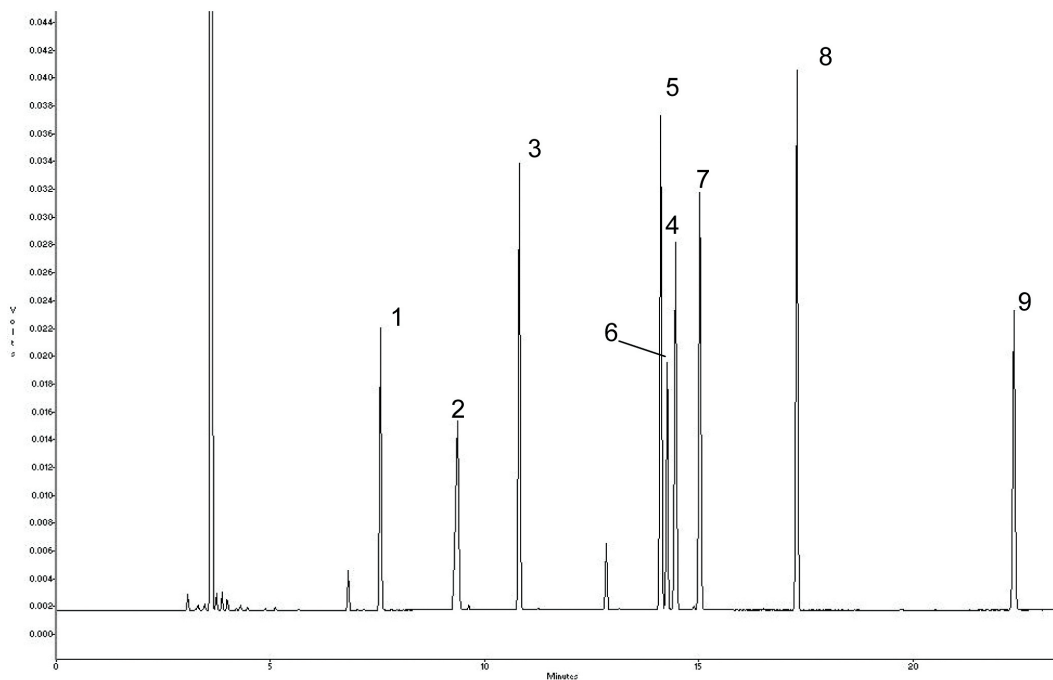
Conditions

Technique : GC-capillary
Column : Agilent FactorFour VF-1301ms, 0.25 mm x 30 m
fused silica (df = 0.25 μ m) (Part no. CP9053)
Temperature : 45 °C (3 min) \rightarrow 280 °C, 10 °C/min
Carrier Gas : He, 60 kPa
Injector : Split, 1 μ L, 1:100
Detector : FID
Sample : 100 μ g/ μ L in methanol

Courtesy : J. Peene, Agilent application laboratory,
Middelburg, The Netherlands

Peak identification

1. N-nitroso dimethylamine
2. N-nitroso methylethylamine
3. N-nitroso diethylamine
4. N-nitroso pyrrolidine
5. N-nitroso di-n-propylamine
6. N-nitroso morpholine
7. N-nitroso piperidine
8. N-nitroso-n-butylamine
9. N-nitroso diphenylamine



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