



Nitrosamines

Analysis of nitrosamines to EPA 8270

Application Note

Environmental

Authors

Agilent Technologies, Inc.

Introduction

Using GC/MS, an Agilent FactorFour VF-200ms column separates nine nitrosamines according to EPA 8270 in less than 20 minutes.



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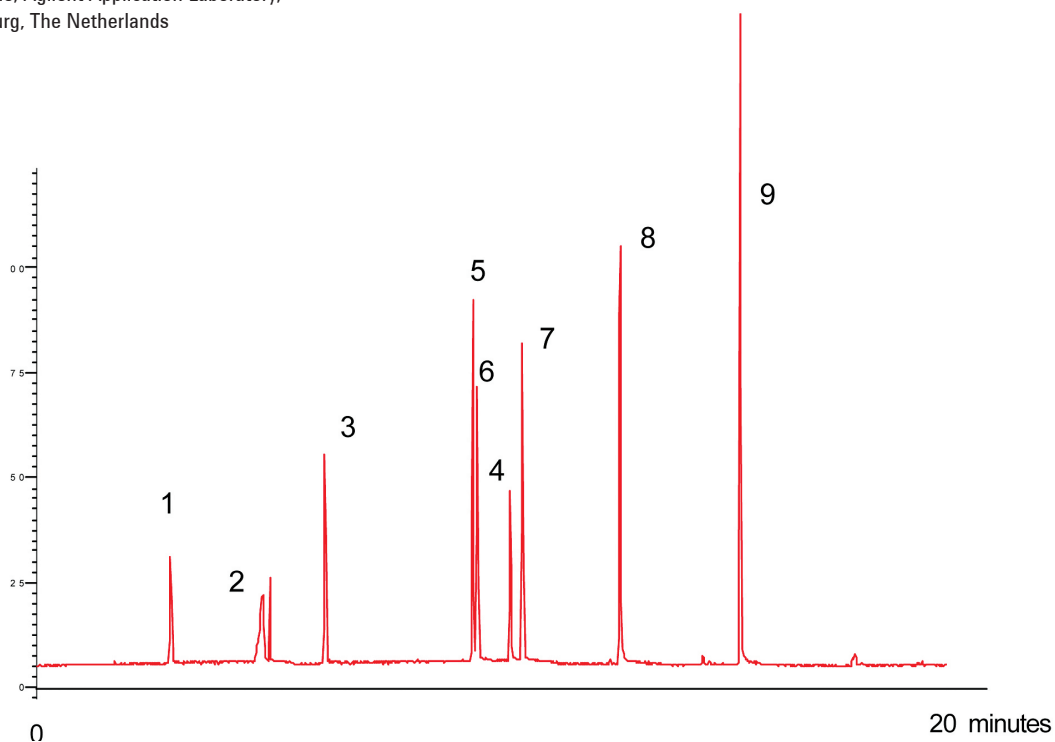
Conditions

Technique : GC
Column : Agilent FactorFour VF-200ms, 0.25 mm x 30 m
(df = 1.0 μ m) (Part no. CP8858)
Temperature : 45 °C, 3 min + 10 °C/min \rightarrow 325 °C
Carrier Gas : Helium, ca 1.0 mL/min
Pressure program : 60 kPa
Injector : Split/Splitless, in split mode, 1:100
Detector : MS
Sample Size : 1 μ L
Solvent : methylene chloride, 2000 μ g/mL

Courtesy : Jan 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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