



Nitrosamines

Analysis of EPA 8270 nitrosamines

Application Note

Environmental

Authors

Agilent Technologies, Inc.

Introduction

GC analysis of nine EPA 8270 nitrosamines on a 0.53 mm wide bore Agilent VF-5ms capillary column takes only 20 minutes.



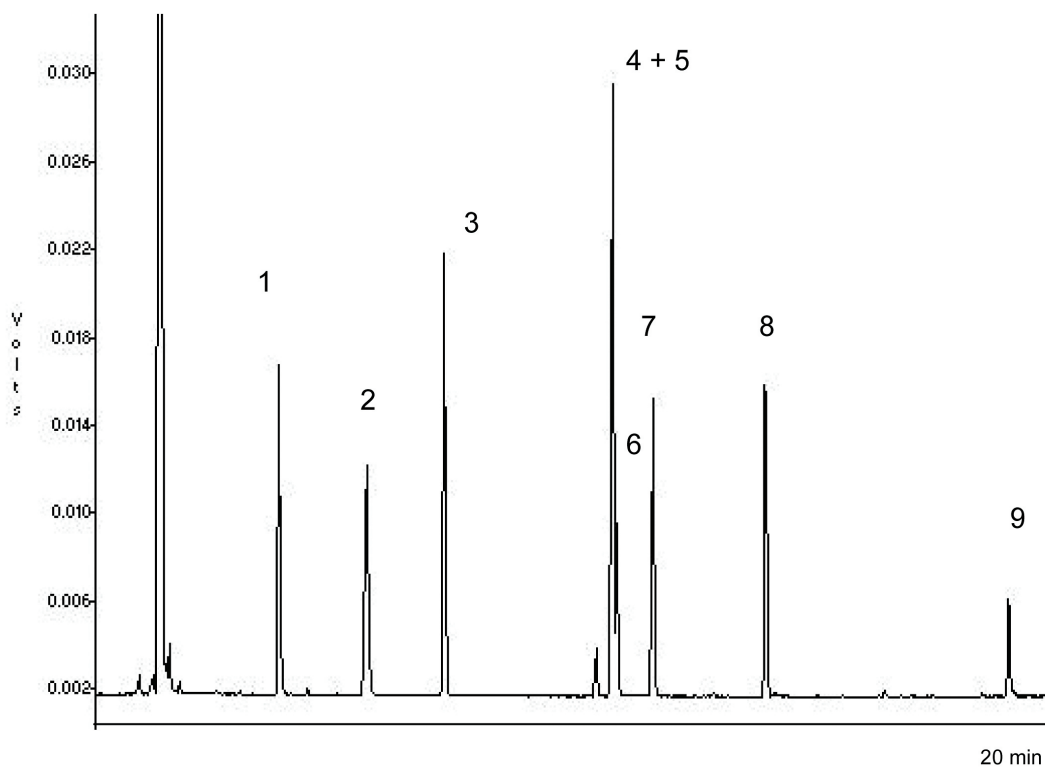
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Conditions

Technique : GC
Column : Agilent VF-5ms, 0.53 mm x 30 m fused silica
(df = 0.5 μ m) (Part No. CP8974)
Temperature : 40 $^{\circ}$ C, 4 min \rightarrow 270 $^{\circ}$ C, 10 $^{\circ}$ C/min
Carrier Gas : H₂, 50 kPa
Injector : Split, 0.5 μ L, Splitvent: 100 mL/min
Detector : FID
T = 300 $^{\circ}$ C
Concentration Range : ca. 0.2%, ca. 5 ng of each component on the column

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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