



Nitrosamines

Application Note

Environmental

Authors

Agilent Technologies, Inc.

Introduction

GC analysis of nitrosamines according to EPA 8270 uses the stabilized 50% phenyl PDMS of an Agilent VF-17ms column.



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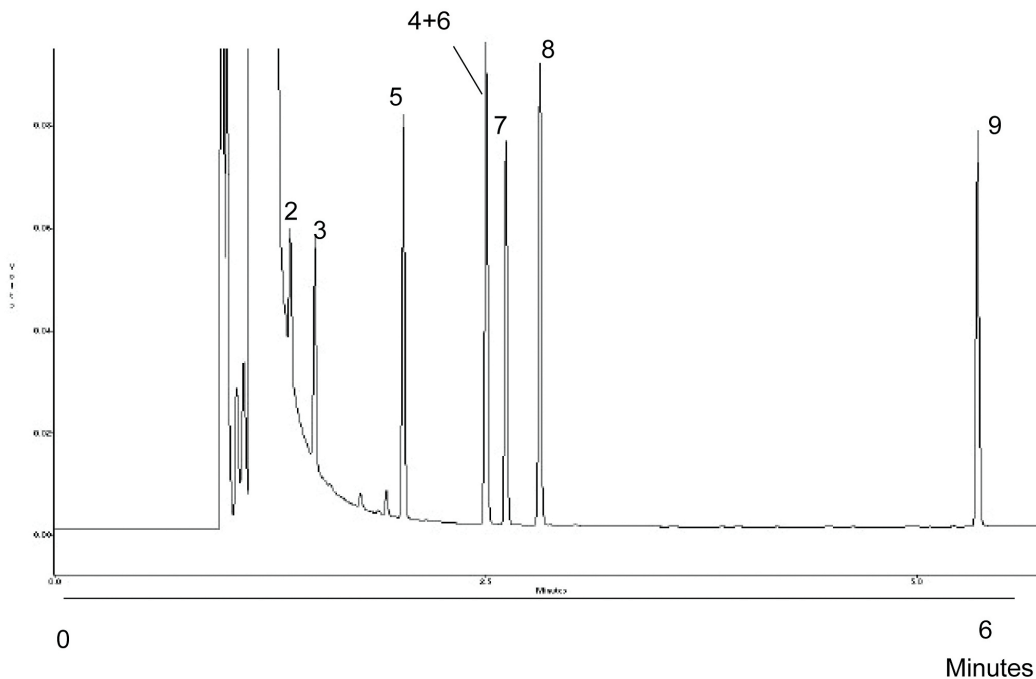
Conditions

Technique : GC
Column : Agilent VF-17ms, 0.53 mm x 30 m fused silica
(df = 0.50 µm) (Part No. CP9000)
Temperature : 100 °C + 25 °C/min → 300 °C
Carrier Gas : Helium, 50 kPa
Injector : Direct injection, T = 250 °C
Detector : FID
Sample Size : 0.2 µL
Concentration Range : 20 - 200 ug/mL

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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