



Nitrosamines

Application Note

Environmental

Authors

Agilent Technologies, Inc.

Introduction

GC separation of nine nitrosamines according to EPA 8270 is achieved in under 20 minutes with the stabilized 50% phenyl PDMS phase in an Agilent VF-17ms column.



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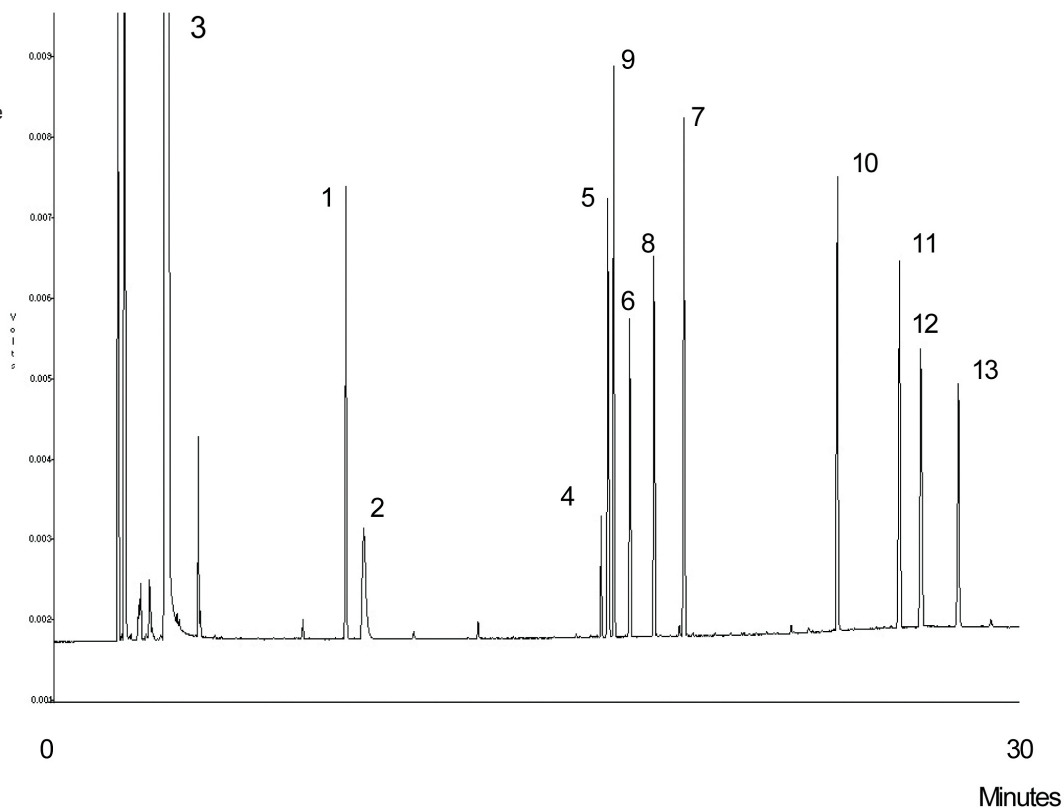
Conditions

Technique : GC
Column : Agilent VF-17ms, 0.25 mm x 30 m fused silica
(df = 0.25 µm) (Part No. CP8982)
Temperature : 50 °C + 10 °C/min → 300 °C
Carrier Gas : Helium, 70 kPa
Injector : Splitter, 1:100
Detector : FID
Sample Size : 1 µL
Concentration Range : 200 µg/mL

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

Peak identification

1. o-toluidine
2. a,a-dimethylphenylethylamine
3. methylene chloride
4. 1-naphthylamine
5. 2-naphthylamine
6. 5-nitro-o-toluidine
7. diphenylamine
8. phenacetin
9. 4-aminobiphenyl
10. p-dimethylaminoazobenzene
11. 3,3'-dimethylbenzidine
12. 2-acetylaminofluorene
13. 3,3'-dichlorobenzidine



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This information is subject to change without notice.

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