



Nitro and chlorinated aromatics

Application Note

Environmental

Authors

Agilent Technologies, Inc.

Introduction

For GC separation of 14 nitrosamines in under 20 minutes use the stabilized 50% phenyl PDMS phase of an Agilent VF-17ms column.



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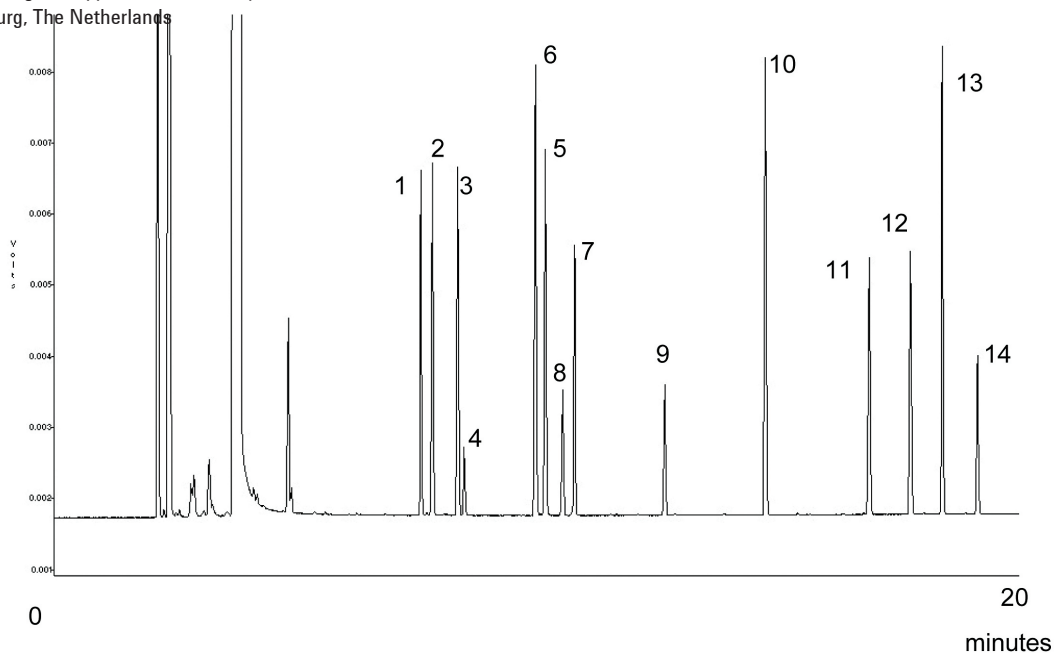
Conditions

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

- 1,3-dichlorobenzene
- 1,4-dichlorobenzene
- 1,2-dichlorobenzene
- hexachloroethane
- nitrobenzene
- isophorone
- 1,2,4-trichlorobenzene
- hexachlorobutadiene
- hexachlorocyclopentadiene
- 2-chloronaphthalene
- 2,6-dinitrotoluene
- 2,4-dinitrotoluene
- azobenzene
- hexachlorobenzene



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