



Nitro- and chlorinated aromatics

Separation of nitro-and halogenated aromatic compounds (base neutrals)

Application Note

Environmental

Authors

Agilent Technologies, Inc.

Introduction

Separation of 14 nitro-and halogenated aromatic compounds (base neutrals) by Agilent VF-1701ms in 20 minutes.



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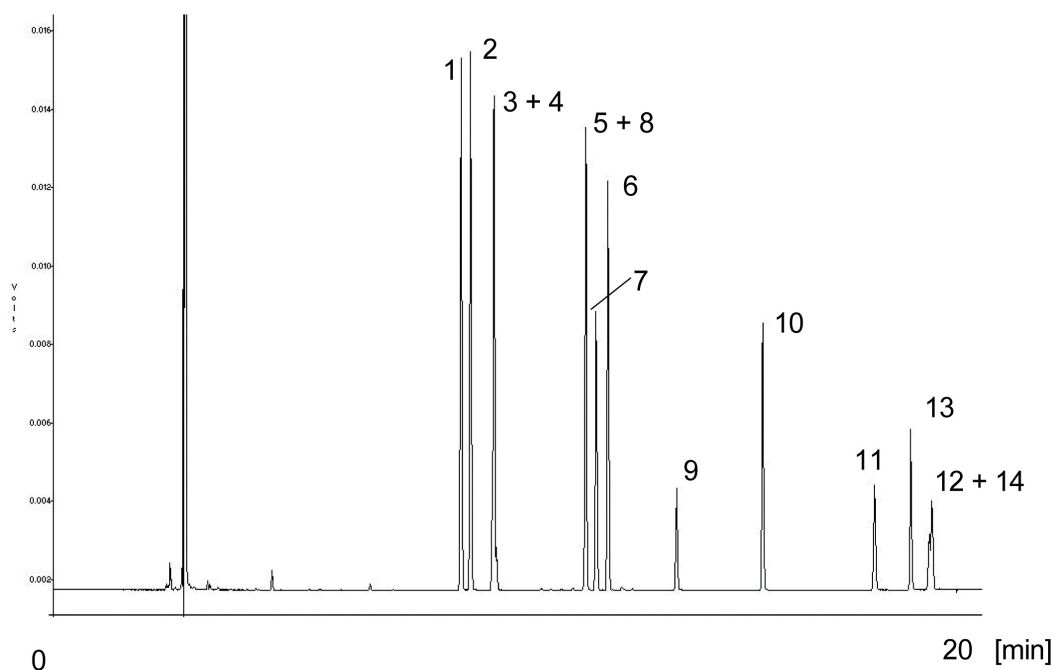
Conditions

Technique : GC-capillary
Column : Agilent FactorFour VF-1701ms, 0.25 mm x 30 m
fused silica (df= 0.25 µm) (Part no. CP9151)
Temperature : 45 °C (3 min) → 280 °C, 10 °C/min
Carrier Gas : Helium, 60 kPa, 1 mL/min
Injector : Split, 1:100, 1.0 µL
Detector : FID
Sample Size : 100 µg/mL in methylene chloride

Courtesy : Jan 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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