



# Nitroaromatics and cyclic ketones

## Application Note

Environmental

### Authors

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### Introduction

Nitro aromatics and cyclic ketones are analyzed by GC according to EPA 8090 using the stabilized 50% phenyl PDMS phase of Agilent VF-17ms.



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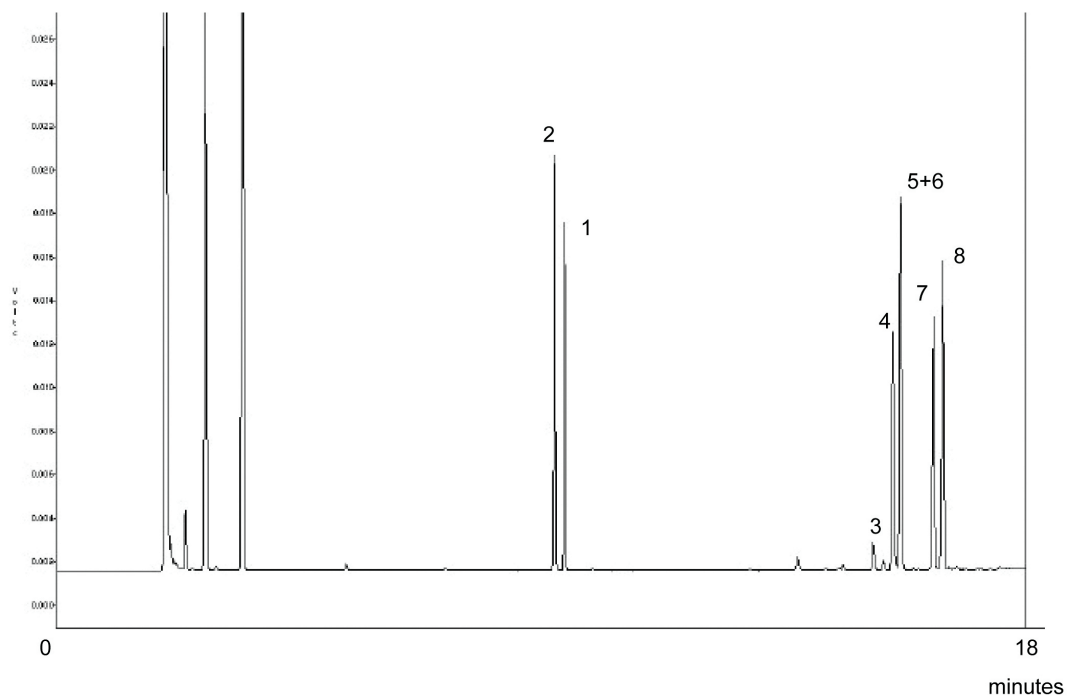
## Conditions

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 ug/mL

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

## Peak identification

1. Nitrobenzene
2. Isophorone
3. 1,4-Napthoquinone
4. 1,4-Dinitrobenzene
5. 1,3-Dinitrobenzene
6. 2,6-Dinitrotoluene
7. 1,2-Dinitrobenzene
8. 2,4-Dinitrotoluene



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