

# Nitro- and sulfur compounds

## Application Note

Environmental

### Authors

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### Introduction

GC separation of 13 nitro and sulfur compounds according to EPA 8270 is achieved in 20 minutes with an Agilent VF-17ms column.



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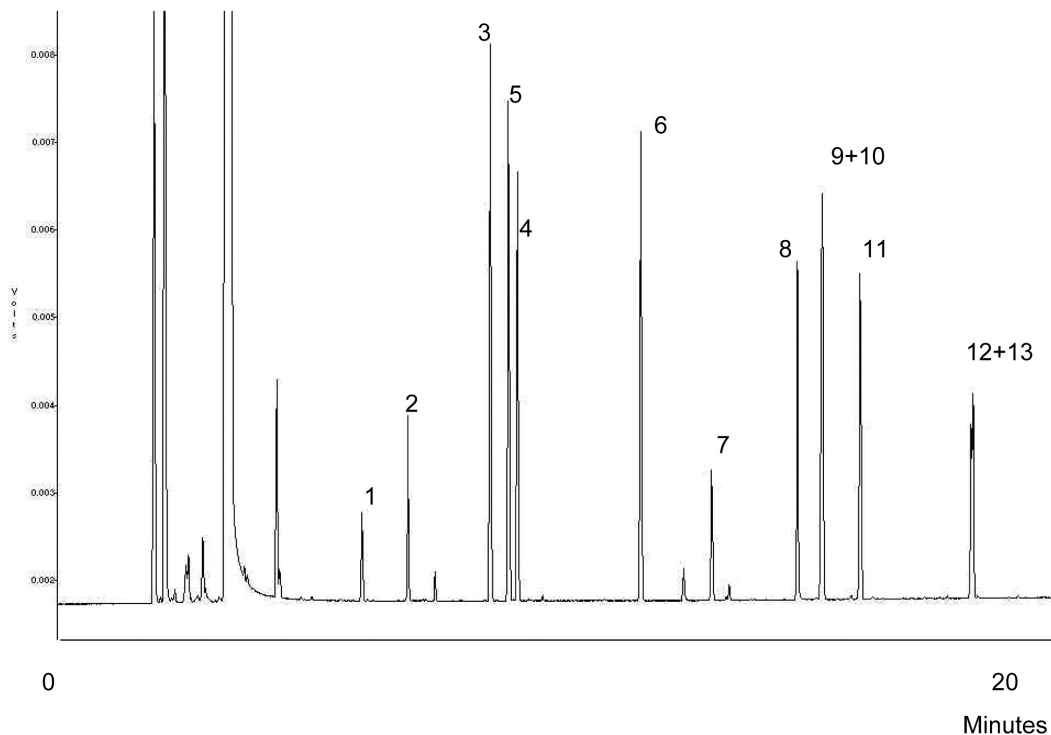
## Conditions

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. methyl methane sulfonate
2. ethyl methane sulfonate
3. acetophenone
4. nitrobenzene
5. isophorone
6. safrole
7. isosafrole
8. 1,4-naphthoquinone
9. m-dinitrobenzene
10. 2,6-dinitrotoluene
11. 2,4-dinitrotoluene
12. 1,3,5 -trinitrobenzene
13. pentachloronitrobenzene



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