



Polyaromatic hydrocarbons

Analysis of EPA 625 PAH

Application Note

Environmental

Authors

Agilent Technologies, Inc.

Introduction

For GC analysis of 16 polyaromatic hydrocarbons use an Agilent VF-200ms column to achieve a separation in 30 minutes.



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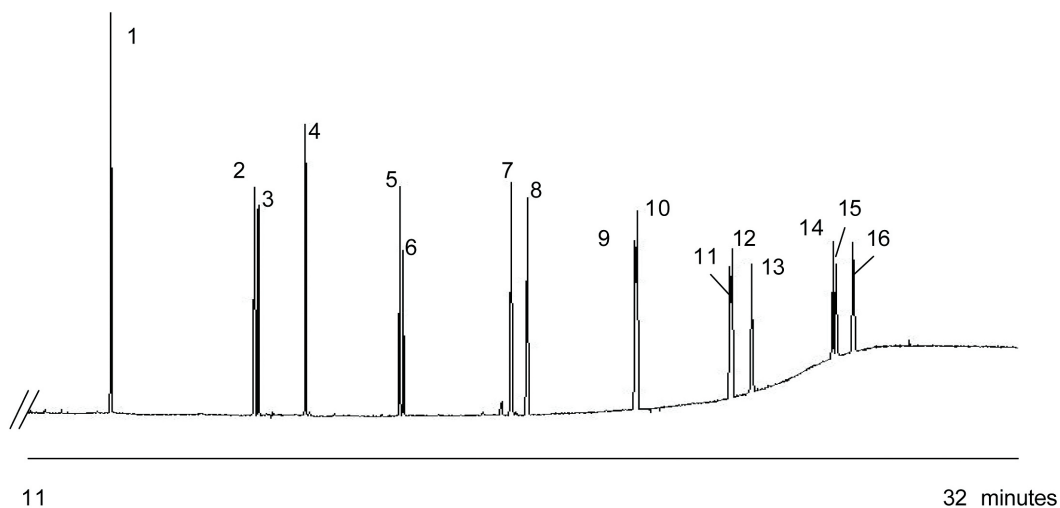
Conditions

Technique : GC
Column : Agilent FactorFour VF-200ms, 0.25 mm x 30 m
(df = 0.25 µm) (Part no. CP8858)
Temperature : 45 °C, 10 °C/min → 325 °C
Carrier Gas : Helium, ca. 1.0 mL/min
Pressure program : 60 kPa
Injector : Split/Splitless, in split mode, 1:100
Detector : FID
Sample Size : 1 µL
Solvent : methylene chloride, 2000 µg/mL

Courtesy : Jane Peene, Agilent Application laboratory,
Middelburg, The Netherlands

Peak identification

1. naphthalene
2. acenaphthylene
3. acenaphthene
4. fluorene
5. phenanthrene
6. anthracene
7. fluoranthene
8. pyrene
9. chrysene
10. benzo(a)anthracene
11. benzo(k)fluoranthene
12. benzo(b)fluoranthene
13. benzo(a)pyrene
14. indeno(1,2,3-c,d)pyrene
15. dibenzo(a,h)anthracene
16. benzo(g,h,i)perylene



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Printed in the USA

31 October, 2011

First published prior to 11 May, 2010

A02202



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