



Polyaromatic hydrocarbons

Application Note

Environmental

Authors

Agilent Technologies, Inc.

Introduction

Determination of 18 polyaromatic hydrocarbons using Agilent VF-35ms and GC/MS.



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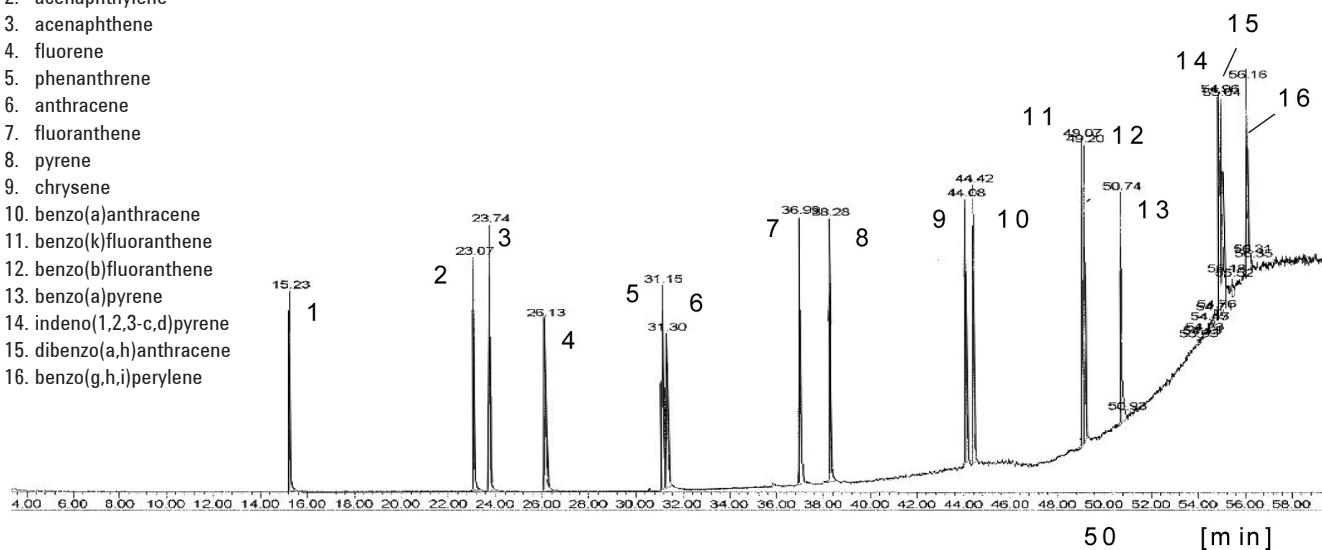
Conditions

Technique : GC-capillary
Column : Agilent FactorFour VF-35ms, 0.25 mm x 30 m fused silica (df = 0.25 µm) (Part no. CP8877)
Temperature : 60 °C (3 min), 5 °C/min, 250 °C
Carrier Gas : Helium, Constant flow, 1.9 mL/min, 114.4 kPa,
Injector : Splitless
Injection Temperature : 250 °C
Detector : MS; TIC, Transfer line: 290 °C;
Solvent : acetone/trile/ethylacetate, 1:1
Component conc : 5 µg/mL

Courtesy : Herr Ueberschaer, Staatliche Umwelt Koln, Germany

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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This information is subject to change without notice.

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