



# **Polyaromatic hydrocarbons**

## **PAHS analyzed according to EPA 610**

### **Application Note**

Environmental

#### **Authors**

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#### **Introduction**

Gas chromatography with an Agilent CP-Sil PAH CB UltiMetal column separates 16 polyaromatic hydrocarbons according to EPA 610 in 58 minutes.



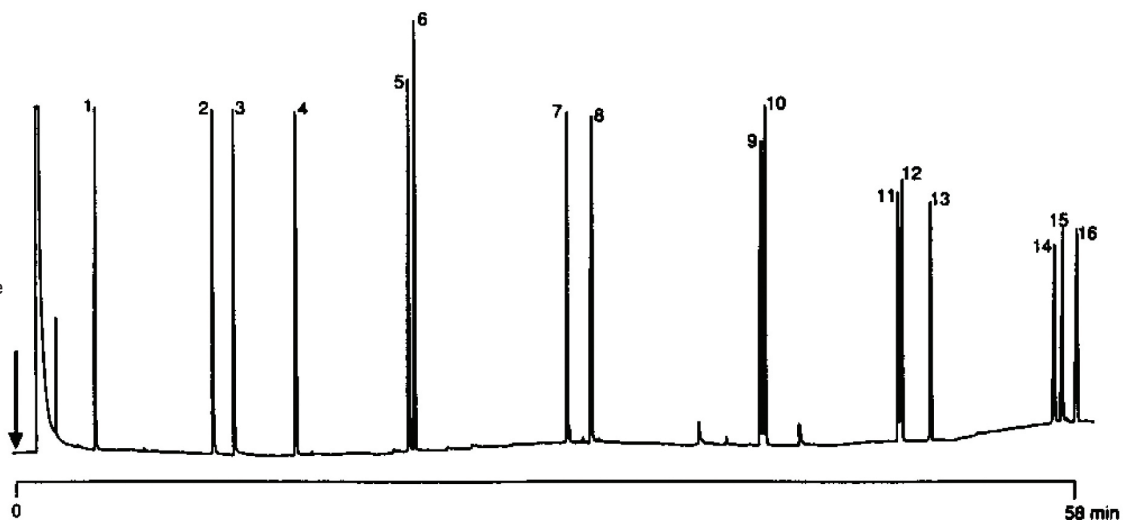
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## Conditions

Technique : GC-capillary  
Column : Agilent CP-Sil PAH CB UltiMetal, 0.25 mm x 25 m  
UltiMetal WCOT CP-Sil PAH CB (df = 0.12 µm)  
(Part no. CP7440)  
Temperature : 70 °C → 300 °C, 3 °C/min  
Carrier Gas : H<sub>2</sub>, 100 kPa (1 bar, 14.3 psi), 30 cm/s  
Injector : Splitter, 100 mL/min  
T = 325 °C  
Detector : FID, 2<sup>3</sup>  
T = 350 °C  
Sample Size : 0.5 µL  
Concentration Range : 100 ppm  
Solvent Sample : methanol

## Peak identification

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



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