Polycyclic aromatic hydrocarbons

Application Note

Environmental

Authors

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Introduction

GC/MS using an Agilent CP-Sil 5 CB Low Bleed/MS column separates ten polycyclic aromatic hydrocarbons in water in 19 minutes.

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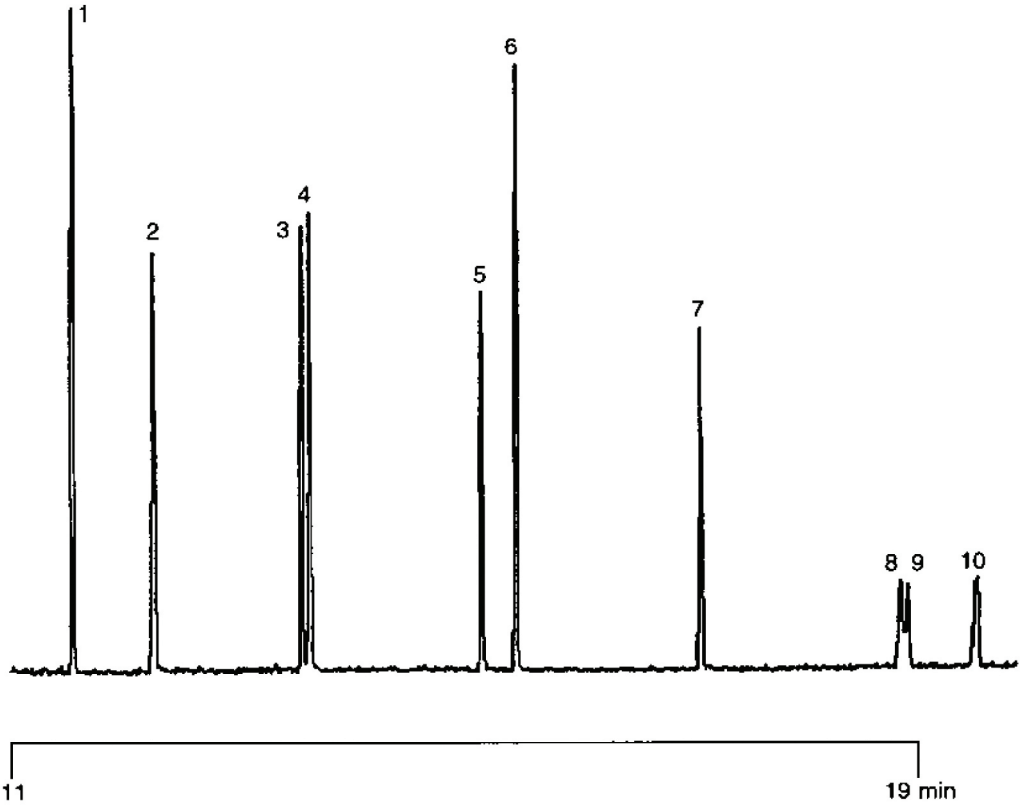
Conditions

Technique	:	GC-capillary
Column	:	Agilent CP-Sil 5 CB Low Bleed/MS, 0.25 mm x 25 m fused silica WCOT CP-Sil 5 CB (df = 0.25 µm) (Part no. CP7842)
Temperature	:	50 °C (5 min) ⟶ 250 °C, 20 °C/min; 250 °C (15 min)
Carrier Gas	:	He
Injector	:	Split, T = 250 °C
Detector	:	MS, T = 250 °C
Sample Size	:	0.3 µL
Concentration Range	:	50 mg/L

Peak identification

1. acenapthene
2. fluorene
3. phenanthrene
4. anthracene
5. fluoranthene
6. pyrene
7. benz[a]anthracene
8. benzo[a]pyrene
9. benz[e]acephenanthrylene
10. benzo[ghi]perylene



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