



PAHs and phenols

Application Note

Environmental

Authors

Agilent Technologies, Inc.

Introduction

Gas chromatography with an Agilent CP-Wax 52 CB column separates 19 polyaromatic hydrocarbons and phenols in 22 minutes.



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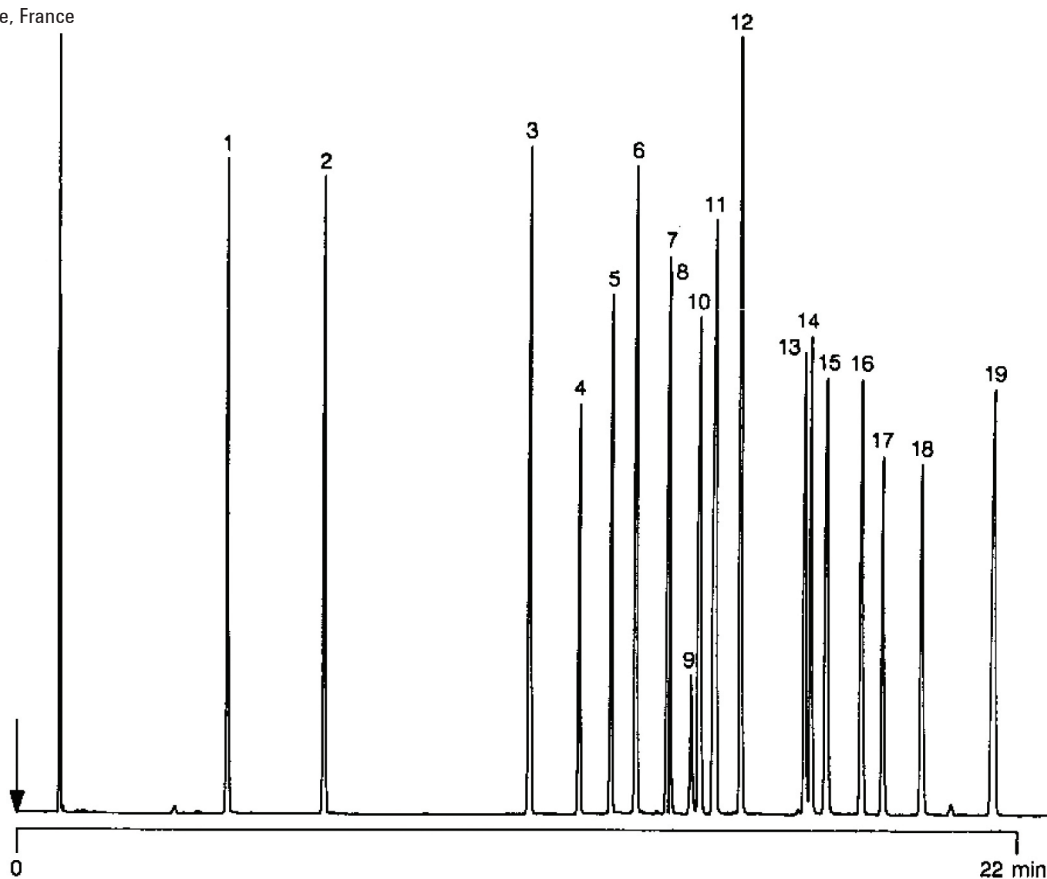
Conditions

Technique : GC-capillary
Column : Agilent CP-Wax 52 CB, 0.25 mm x 25 m fused silica
WCOT CP-Wax 52 CB (df = 0.2 µm) (Part no. CP7713)
Temperature : 70 °C (4 min) → 140 °C, 7 °C/min (0 min) → 230 °C,
4 °C/min (15 min)
Carrier Gas : N₂, 85 kPa (0.85 bar, 12 psi)
Injector : Splitter, 1 : 100
Detector : FID
Sample Size : 0.2 µL
Concentration range : 0.1%

Courtesy : Mr T. Duvauchelle,
BEFS Technologies,
Mulhouse, France

Peak identification

1. indane
2. indene
3. naphthalene
4. thionaphthene
5. 2-methylnaphthalene
6. 1-methylnaphthalene
7. quinoline
8. 2,6-xylenol.
9. 2,6-dimethylnaphthalene
10. isoquinoline
11. biphenyl
12. phenol + o-cresol
13. p-cresol
14. m-cresol
15. acenaphthene
16. 2,3-xylenol
17. 3,5-xylenol
18. 3,4-xylenol
19. fluorene



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This information is subject to change without notice.

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