



Hydrocarbons, C₆ - C₉

Reference method for monitoring systems for analysis of hydrocarbons in environmental air

Application Note

Environmental

Authors

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Introduction

Gas chromatography with an Agilent CP-Sil 5 CB column separates a standard mixture of C₆ to C₉ hydrocarbons in air in 12.5 minutes.



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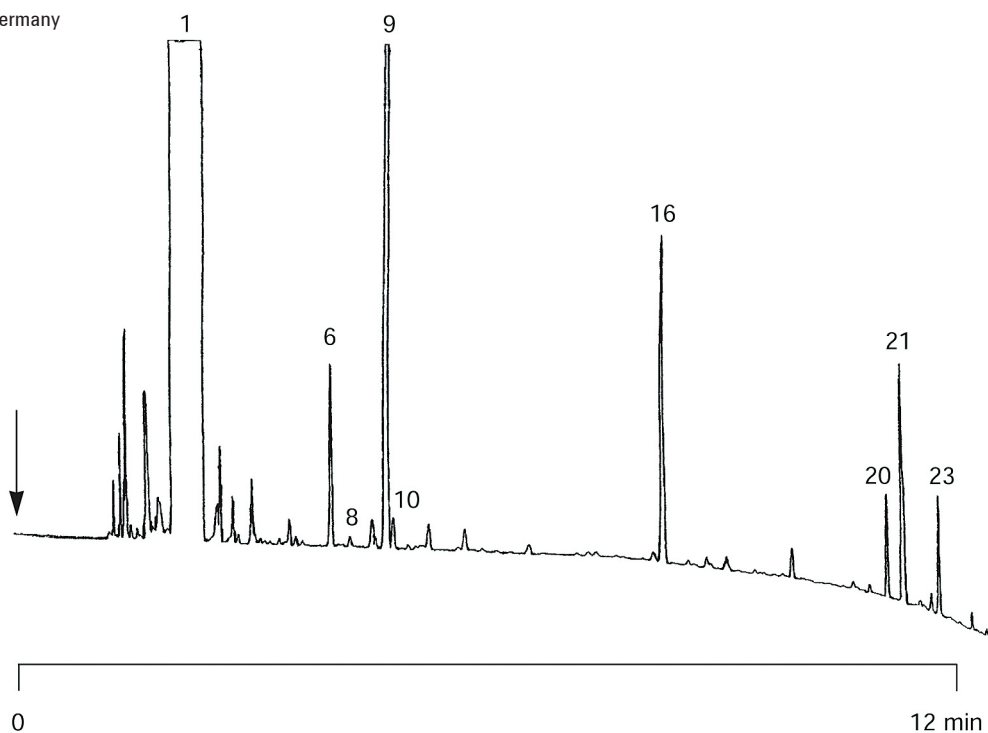
Conditions

Technique : GC-capillary
Column : Agilent CP-Sil 5 CB, 0.25 mm x 25 m (df = 0.4 μ m)
(Part no. CP7709)
Temperature : 35 °C (7.5 min) \rightarrow 55 °C, 20 °C/min;
55 °C \rightarrow 80 °C, 12.5 °C/min;
80 °C \rightarrow 120 °C, 20 °C/min
Carrier Gas : He
Injector : Split,
T = 200 °C
Detector : FID
T = 200 °C
Sample Size : 10 μ L
Concentration Range : 3 - 26 μ g/m³
Sample Solvent : CS₂

Courtesy : G. Hackspacher, Umwelttechnik MCZ,
Ober Mörten, Germany

Peak identification

1. carbon disulfide	(16.1 μ g/m ³)
6. benzene	
8. cyclohexane	
9. cyclohexene (I.S.)	
10. 3-methylhexane	
16. toluene	(37.2 μ g/m ³)
20. ethylbenzene	(3.8 μ g/m ³)
21. m/p-xylene	(26.0 μ g/m ³)
23. o-xylene	(9.4 μ g/m ³)



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