



# Alkanes $C_8 - C_{12}$ + aromatics $C_6 - C_{10}$

## Application Note

Energy & Fuels

### Authors

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### Introduction

Gas chromatography using an Agilent TCEP column separates 13  $C_8$  to  $C_{12}$  alkanes and  $C_6$  to  $C_{10}$  aromatics in 20 minutes.



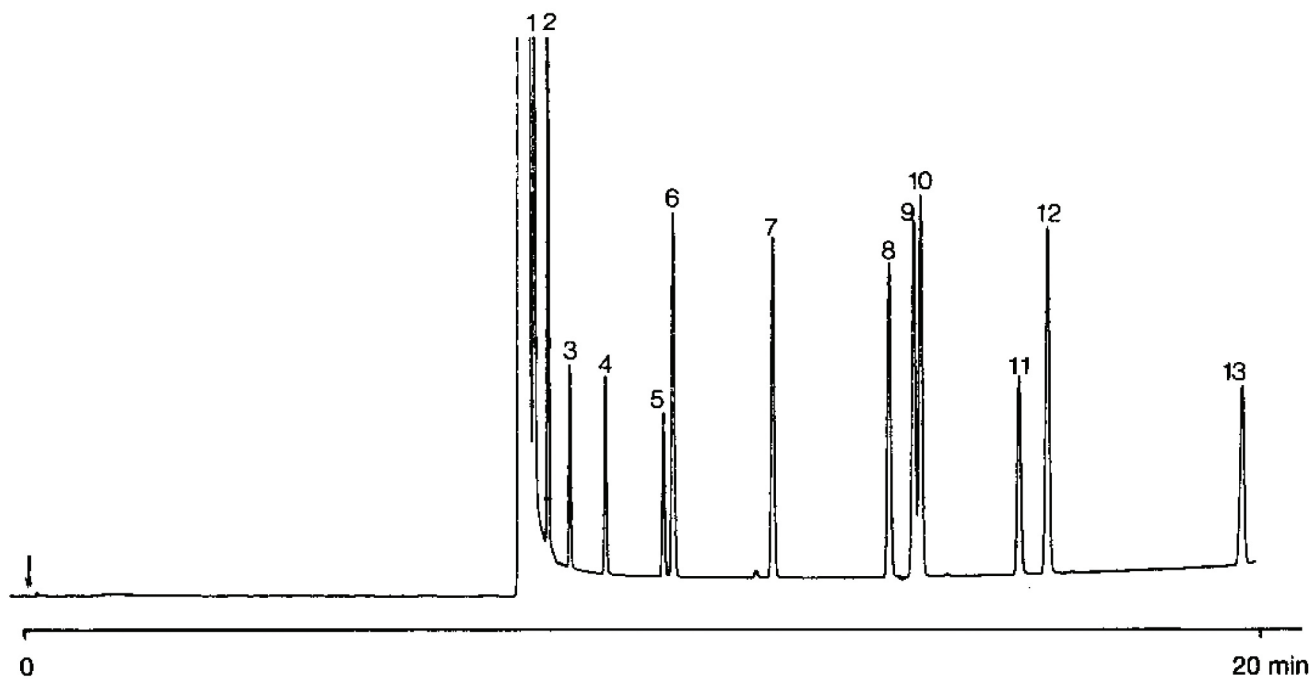
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## Conditions

Technique : GC-capillary  
Column : Agilent TCEP, 0.22 mm x 50 m fused silica  
WCOT TCEP (0.4  $\mu$ m) (Part no. CP7525)  
Temperature : 95 °C (10 min)  $\rightarrow$  120 °C, 2.5 °C/min  
Carrier Gas : N<sub>2</sub>, 90 kPa (0.9 bar), 12.2 cm/s  
Injector : Splitter, 50 mL/min  
Detector : FID, 4 x 10<sup>-12</sup> Afs  
T = 150 °C  
Sample Size : 0.1  $\mu$ L  
Solvent Sample : n-hexane

## Peak identification

1. n-octane
2. n-nonane
3. n-decane
4. n-undecane
5. n-dodecane
6. benzene
7. toluene
8. ethylbenzene
9. m-xylene
10. p-xylene
11. n-propylbenzene
12. o-xylene
13. n-butylbenzene



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