



Aromatics $C_3 - C_{10}$

Separation of C_1 - C_4 substituted benzenes on a wide-bore fused silica column

Application Note

Energy & Fuels

Authors

Agilent Technologies, Inc.

Introduction

Gas chromatography using an Agilent CP-Sil 5 CB column separates C_1 to C_4 substituted benzenes in ten minutes.



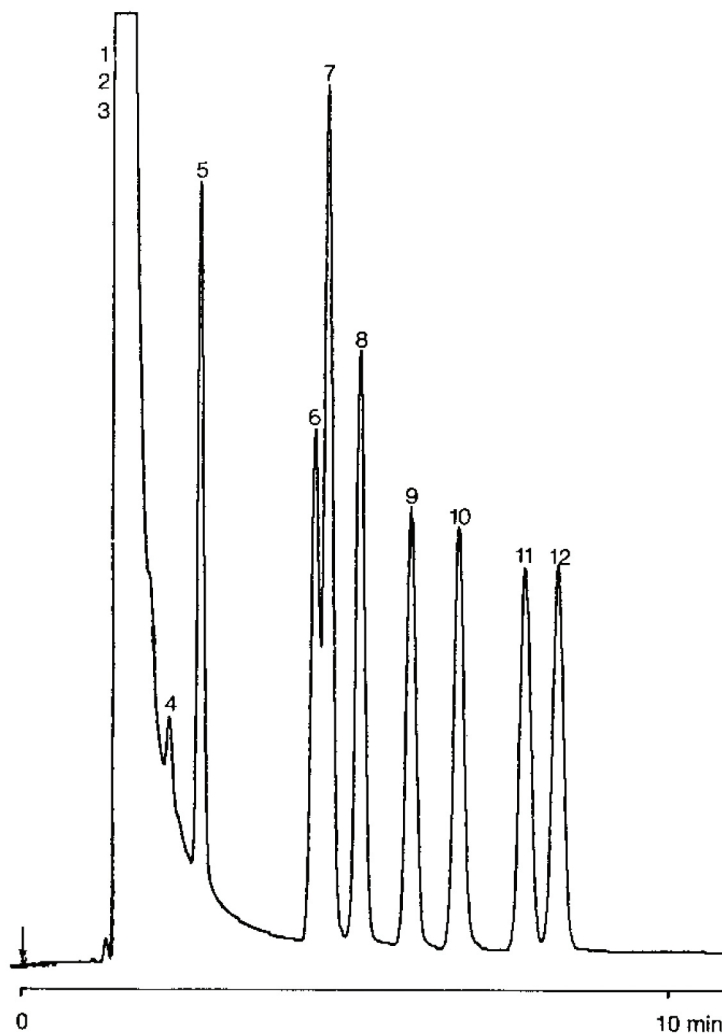
Agilent Technologies

Conditions

Technique : GC-capillary
Column : Agilent CP-Sil 5 CB, 0.53 mm x 10 m fused silica
WCOT CP-Sil 5 CB (5.0 μm) (Part no. CP7645)
Temperature : 50 $^{\circ}\text{C}$ \rightarrow 200 $^{\circ}\text{C}$, 5 $^{\circ}\text{C}/\text{min}$
Carrier Gas : N_2 , 10 kPa (0.1 bar), 52 cm/s
Injector : direct
T = 250 $^{\circ}\text{C}$
Detector : FID, 100×10^{-12} Afs
T = 275 $^{\circ}\text{C}$
Sample Size : 0.2 μL
Solvent Sample : n-hexane

Peak identification

1. n-hexane
2. 2,3-diethylbutane
3. benzene
4. n-heptane
5. toluene
6. ethylbenzene
7. p-xylene
8. o-xylene
9. cumene
10. n-propylbenzene
11. tert. butylbenzene
12. sec. butylbenzene



www.agilent.com/chem

This information is subject to change without notice.

© Agilent Technologies, Inc. 2011

Printed in the USA

31 October, 2011

First published prior to 11 May, 2010

A00013



Agilent Technologies