Aromatic hydrocarbons, C_6-C_8

High resolution separation of xylene isomers

Application Note

Environmental

Authors

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Introduction

The cyclodextrin modification of the Agilent CP-Chirasil DEX CB stationary phase makes high resolution separation of xylene isomers possible. The separation of para- and meta-xylene is very good. The bonded chiral phase will guarantee longest possible lifetime.

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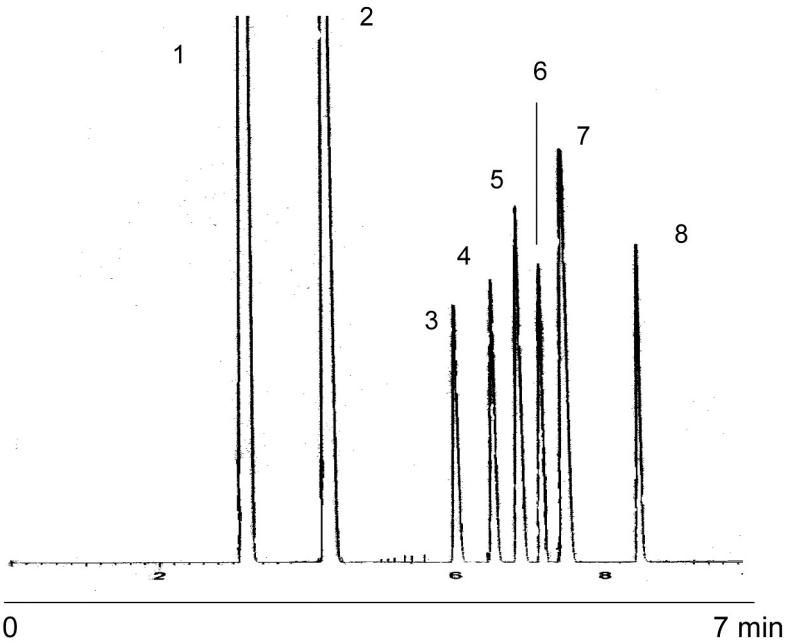
Conditions

Technique	:	GC
Column	:	Agilent CP-Chirasil-DEX CB, 0.25 mm x 25 m fused silica (df = 0.25 µm) (Part no. CP7502)
Temperature	:	80 °C, (6 min) ⟶ 130 °C, 25 °C/min
Carrier Gas	:	helium, 40kPa, 6 Psi
Injector	:	Split, T = 210 °C, 1: 20
Detector	:	FID T = 230 °C
Sample Size	:	0.5 µL
Concentration Range	:	10 - 20%
Courtesy	:	John Valdes, BP Refinery, Texas City Site, Texas City

Peak identification

1. benzene
2. toluene
3. para xylene
4. meta xylene
5. ethyl benzene
6. ortho xylene
7. styrene
8. cumene



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