



Enantiomers

Application Note

Materials Testing & Research

Authors

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Introduction

Gas chromatography with an Agilent CP-Chirasil-DEX CB column separates cyclohexane enantiomers in eight minutes.



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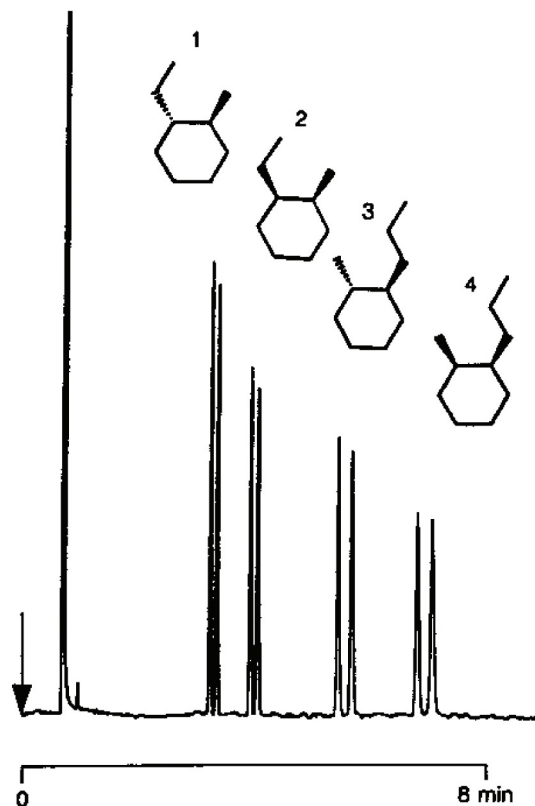
Conditions

Technique : GC-capillary
Column : Agilent CP-Chirasil-DEX CB, 0.25 mm x 25 m fused silica WCOT CP-Chirasil-DEX CB (df = 0.25 µm) (Part no. CP7502)
Temperature : 140 °C → 160 °C, 1 °C/min
Carrier Gas : H₂, 100 kPa (1 bar, 14.5 psi)
Injector : Split
Detector : FID

Courtesy : Prof. V. Schurig, Universität Tübingen, Tübingen, Germany

Peak identification

- 1 (S)-ethyl-2(S)-methylcyclohexane
[+ 1 (R)-ethyl-2(R)-methylcyclohexane]
- 2 1 (R)-ethyl-2(S)-methylcyclohexane
[+ 1(S)-ethyl-2(R)-methylcyclohexane]
- 3 1 (S)-methyl-2(S)-n-propyl cyclohexane
[+ 1 (R)-methyl-2(R)-n-propyl cyclohexane]
- 4 1 (R)-methyl-2(S)-n-propylcyclohexane
[+ 1 (S)-methyl-2(R)-n-propyl cyclohexane]



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