Solvents

Separation of aromatic solvents

Application Note

BioPharma

Authors

Agilent Technologies, Inc.

Introduction

Gas chromatography with an Agilent CP-Select 624 CB column separates 12 solvents in 11 minutes.

The unique selectivity of the CP-Select 624 CB stationary phase enables separation of almost any type of solvent.

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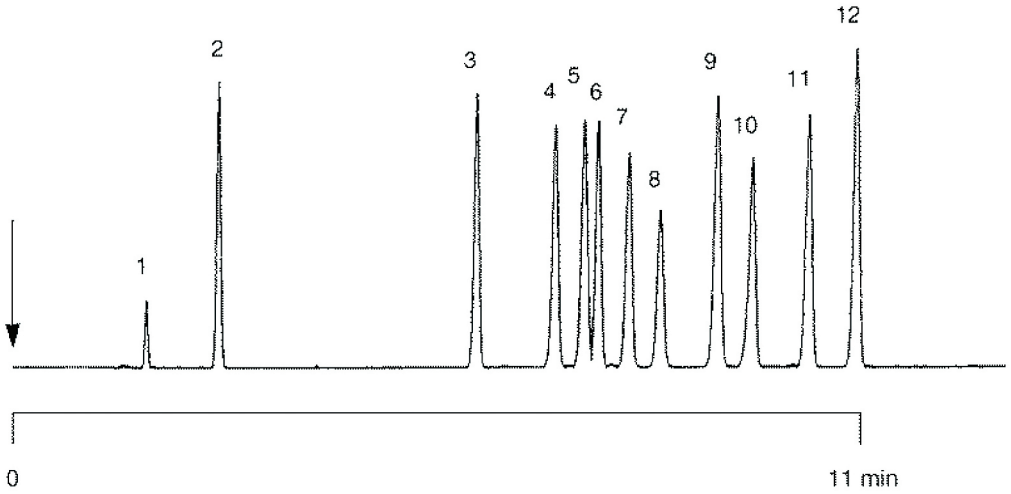
Conditions

Technique	:	GC-wide-bore
Column	:	Agilent CP-Select 624 CB fused silica WCOT 30 m x 0.53 mm, fused silica WCOT (df = 3.0 µm) (Part no. CP7416)
Temperature	:	50 °C → 200 °C. 10 °C/min
Carrier Gas	:	N_2, 10 mL/min
Injector	:	Direct, T = 250 °C
Detector	:	FID T = 250 °C
Sample Size	:	0.02 µL
Solvent Sample	:	solvents mixture

Peak identification

1. 1-hexene
2. cyclohexene
3. styrene
4. 4-ethyltoluene
5. α-methylstyrene
6. 1,2,4-trimethylbenzene
7. p-isopropyltoluene (p-cymene)
8. trans-decalin
9. cis-decalin
10. 1,2,3,5-tetramethylbenzene
11. 1,2,3,4-tetrahydronaphthalene
12. naphthalene



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