



Solvents

Separation of glycols

Application Note

Materials Testing & Research

Authors

Agilent Technologies, Inc.

Introduction

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

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



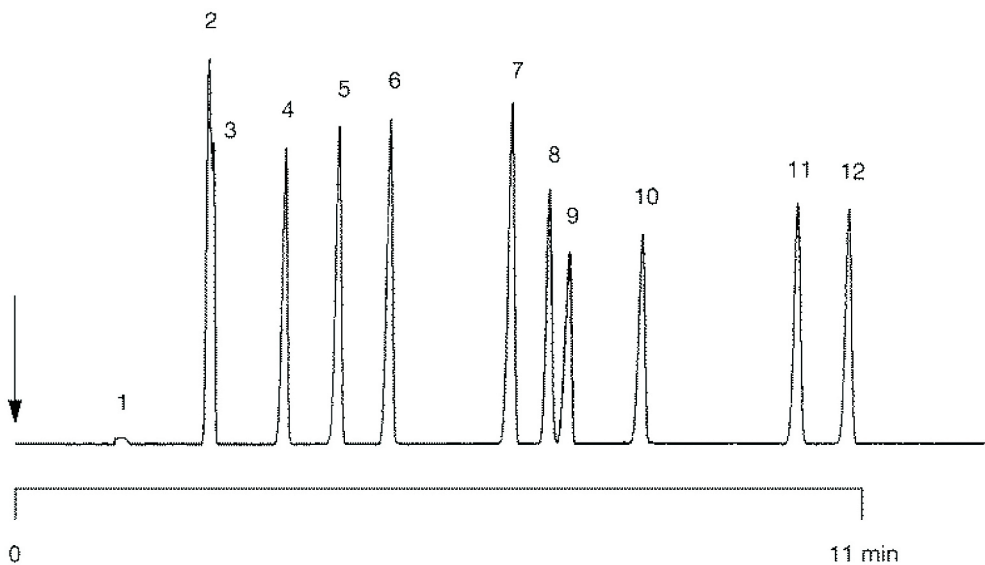
Agilent Technologies

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 μ m)
(Part no. CP7416)
Temperature : 50 °C \rightarrow 200 °C. 10 °C/min
Carrier Gas : N₂, 10 mL/min
Injector : Direct,
T = 250 °C
Detector : FID
T = 250 °C
Sample Size : 0.02 μ L
Solvent Sample : solvents mixture

Peak identification

1. impurity
2. dimethyl glycol
3. 2-methoxyethanol (methyl glycol)
4. ethyl glycol
5. isopropyl glycol
6. propyl glycol
7. butyl glycol
8. dimethyl diglycol
9. methyl diglycol
10. ethyl diglycol
11. isobutyl diglycol
12. butyl diglycol



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

A01416



Agilent Technologies