Solvents

Separation of glycols and diols

Application Note

Materials Testing & Research

Authors

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Introduction

Gas chromatography with an Agilent CP-Select 624 CB column separates 13 glycols and diols in less than 20 minutes.

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

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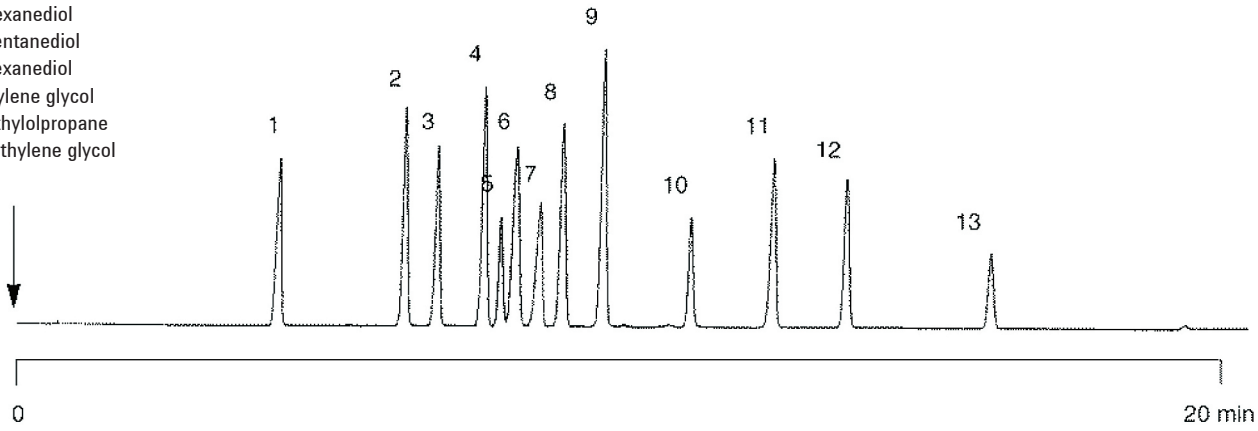
Conditions

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 . ethylene glycol
2. 1,2-butanediol
3. 1,3-butanediol
4. hexylene glycol (2-methyl-2,4-pentanediol)
5. 2,2-dimethyl-1,3-propanediol
6. 1,4-butanediol
7. diethylene glycol
8. 2,5-hexanediol
9. 1,5-pentanediol
10. 1,6-hexanediol
11. triethylene glycol
12. trimethylolpropane
13. tetraethylene glycol



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