



Solvents

Analysis of impurities in pharmaceutical grade isopropanol

Application Note

BioPharma

Authors

Agilent Technologies, Inc.

Introduction

Gas chromatography with an Agilent CP-Select 624 CB column separates impurities in a pharmaceutical grade isopropanol in five minutes.



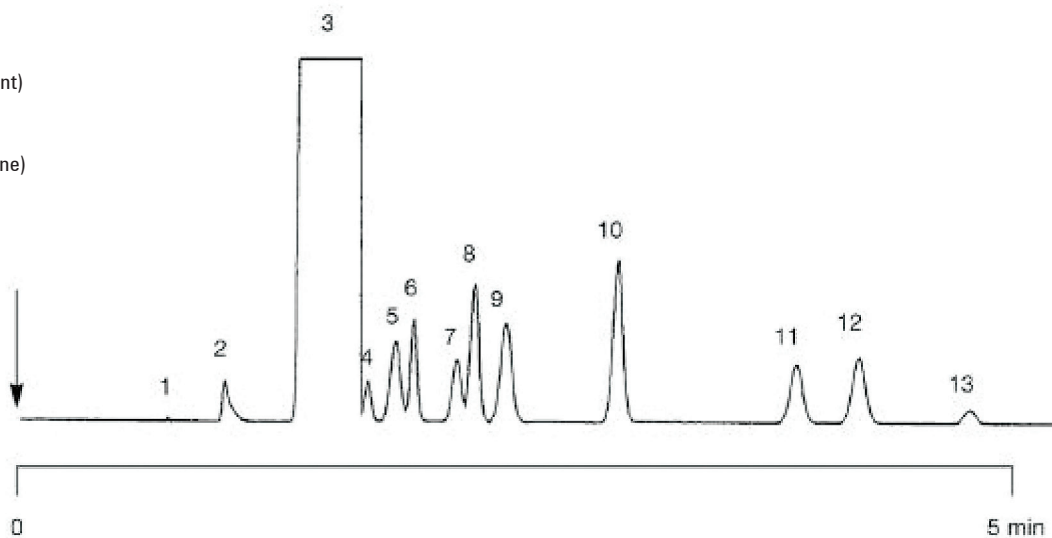
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Conditions

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 : N₂, 10 mL/min
Injector : Direct,
T = 250 °C
Detector : FID
T = 250 °C
Sample Size : 0.02 µL
Solvent Sample : 2-propanol

Peak identification

1. air
2. methanol
3. 2-propanol (isopropanol, solvent)
4. unknown
5. 1-propanol
6. 2-butanone (methyl ethyl ketone)
7. 2-butanol
8. unknown
9. cyclohexane
10. n-butanol
11. methyl isobutyl ketone
12. 4-methyl-2-pentanol
13. mesityl oxide



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