



Flavors and aromas

Analysis of terpineol in pine oil

Application Note

Materials Testing & Research

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Introduction

The most polar, bonded Carbowax phase, Agilent CP-Wax 57 CB, is the only column of this kind that separates β -phenandrene from 1,8-cineol and α -terpinene from 1,4-cineol, if present.



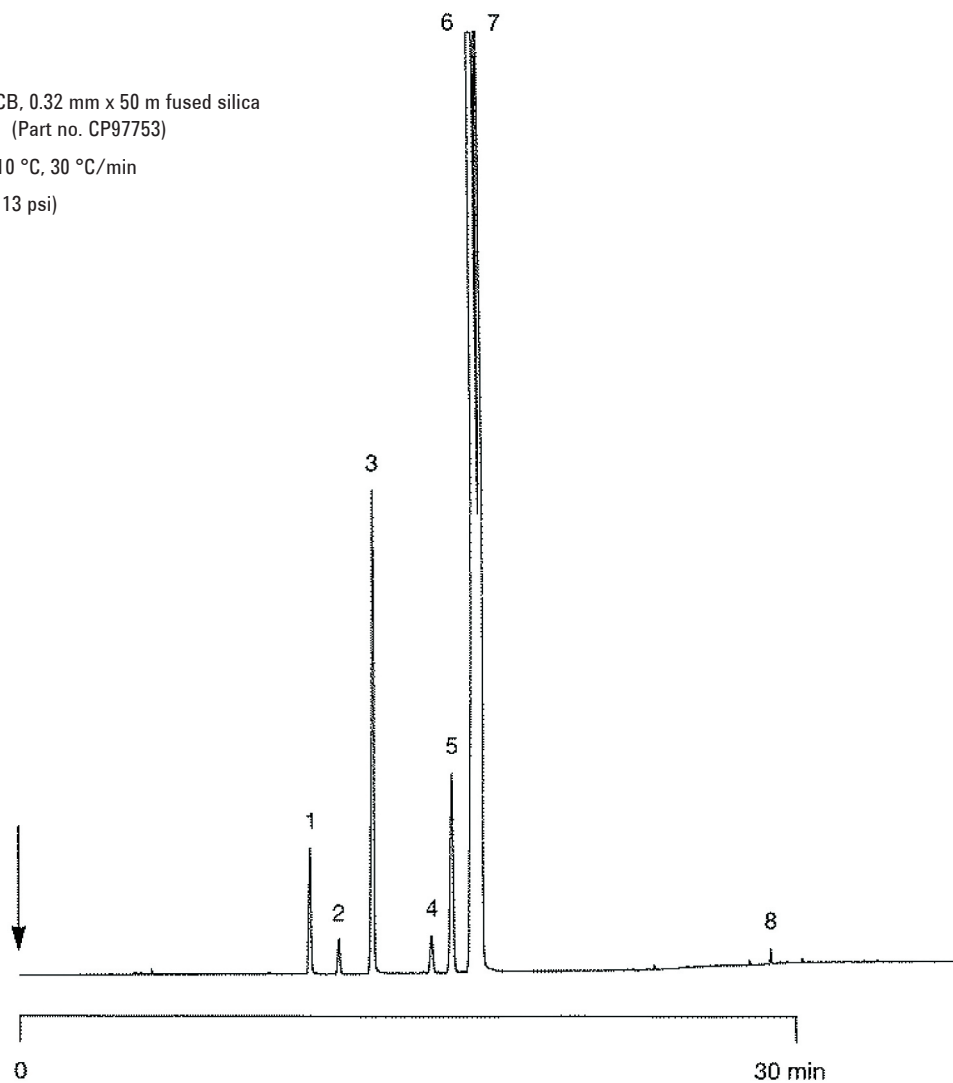
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Conditions

Technique : GC-capillary
Column : Agilent CP-Wax 57 CB, 0.32 mm x 50 m fused silica
WCOT (df = 0.2 μ m) (Part no. CP97753)
Temperature : 70 °C (15 min) \rightarrow 210 °C, 30 °C/min
Carrier Gas : N₂, 90 kPa (0.9 bar, 13 psi)
Injector : Split, 150 mL/min
T = 240 °C
Detector : FID
T = 250 °C
Sample Size : 0.03 μ L
Concentration Range : undiluted sample

Peak identification

1. terpinen-3-ol-1
2. terpinen-4-ol (terpinen-1-ol-4)
3. cis- β -terpineol
4. δ -terpineol
5. trans- β -terpineol
6. α -terpineol
7. γ -terpineol
8. terpin



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This information is subject to change without notice.

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