# Solvents

## Application Note

Materials Testing & Research


### Authors

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### Introduction

Gas chromatography with an Agilent CP-Select 624 CB column separates 25 constituents in a toluene sample in 17 minutes.

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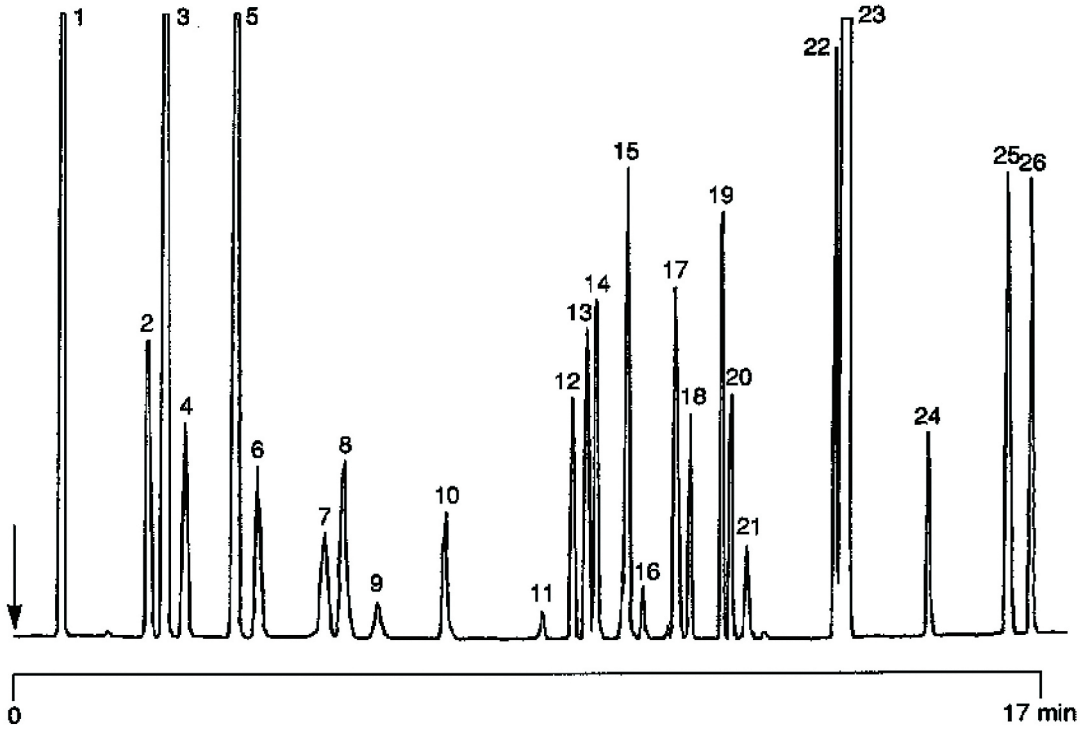
## Conditions

| | | |
|---|---|---|
| Technique | : | GC-capillary |
| Column | : | Agilent CP-Select 624 CB 0.32 mm x 30m CB fused silica WCOT CP-Select 624 CB (df = 1.8 µm) (Part no. CP7414) |
| Temperature | : | 40 °C (7 min) ⟶ 245 °C , 30 °C /min |
| Carrier Gas | : | He, 50 kPa (0.5 bar, 7.2 psi) |
| Injector | : | Splitter, 50 mL/min<br>T = 250 °C |
| Detector | : | FID<br>T = 250 °C |
| Sample Size | : | 0.1 µL |
| Concentration Range | : | 1 %, except methanol, ethanol and acetone 5% |
| Solvent Sample | : | toluene |
| Courtesy | : | Mr. B.M.M. van Genugten Diosynth B.V., The Netherlamds |

## Peak identification

1. methanol
2. pentane
3. ethanol
4. diethyl ether
5. acetone
6. 2-propanol
7. dichloromethane
8. 2-methyl-2-propanol
9. $C_6$-isomer
10. $C_6$-isomer
11. $C_6$-isomer
12. ethyl acetate
13. 2-butanol
14. tetrahydrofuran
15. cyclohexane
16. $C_7$-isomer
17. triethylamine
18. $C_7$-isomer
19. 1-butanol
20. trichloroethylene
21. $C_7$-isomer
22. pyridine
23. toluene
24. N,N-dimethylformamide
25. cyclohexanol
26. cyclohexanone

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