Solvents

Application Note

Materials Testing & Research

Authors

Agilent Technologies, Inc.

Introduction

Gas chromatography with an Agilent CP-Wax 52 CB column separates 35 solvents in 12 minutes.

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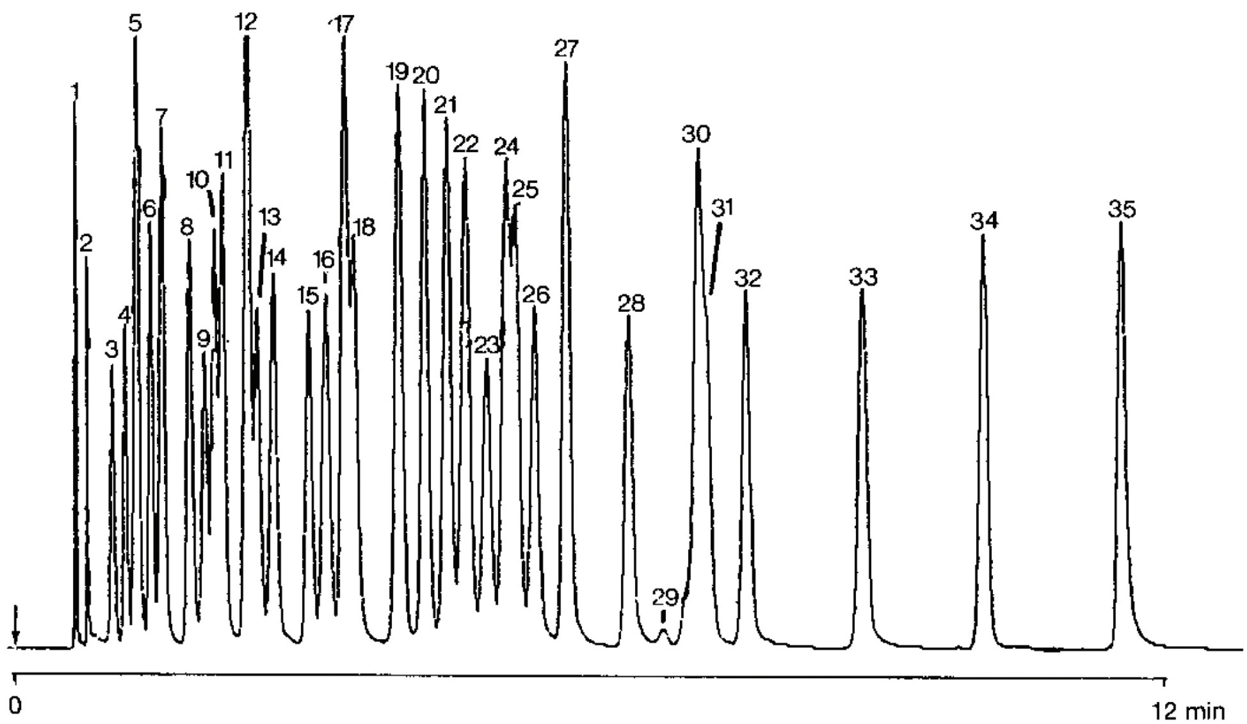
Conditions

Technique	: GC-capillary
Column	: Agilent CP-Wax 52 CB, 0.53 mm x 25 m fused silica WCOT CP-Wax 52 CB (2.0 µm) (Part no. CP7658)
Temperature	: 50 °C → 200 °C, 10 °C/min
Carrier Gas	: N_2, 47 cm/s (10 mL/min)
Injector	: Direct T = 250 °C
Detector	: FID, 100 x 10^{-12} Afs T = 275 °C
Sample Size	: 0.2 µL
Concentration Range	: equal conc.

Peak identification

1. diethylether
2. 1,1-dichloroethene
3. methylacetate
4. trans-1,2-dichloroethene
5. tert. butanol
6. ethanol
7. methylisopropylketone
8. propylacetate
9. trichloroethene
10. 2-butanol
11. 1 -propanol
12. toluene
13. 1,2 dichloroethane
14. butylacetate
15. amylacetate
16. 2-nitropropane
17. p-xylene
18. 4-methyl-2-pentanol
19. o-xylene
20. chlorobenzene
21. 4-ethyltoluene
22. tert. butylbenzene
23. pentoxone
(= 4-methoxy-4-methylpentanone-2)
24. cumene (isopropylbenzene)
25. cyclohexanone
26. 2-heptanol
27. α-methylstyrene
28. cyclohexanol
29. 1,3 dichlorobenzene
30. 1,2,3,5-tetramethylbenzene
31. butylglycolacetate
32. 1,2 -dichlorobenzene
33. isophorone
(= 3,5,5-trimethyl-2-cyclohexen-1-one)
34. α,α-dichlorotoluene
35. benzylalcohol



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