



USP-467 residual solvents

Application Note

BioPharma

Authors

Agilent Technologies, Inc.

Introduction

Gas chromatography with an Agilent FactorFour VF-624ms column separates 27 residual solvents in 40 minutes.



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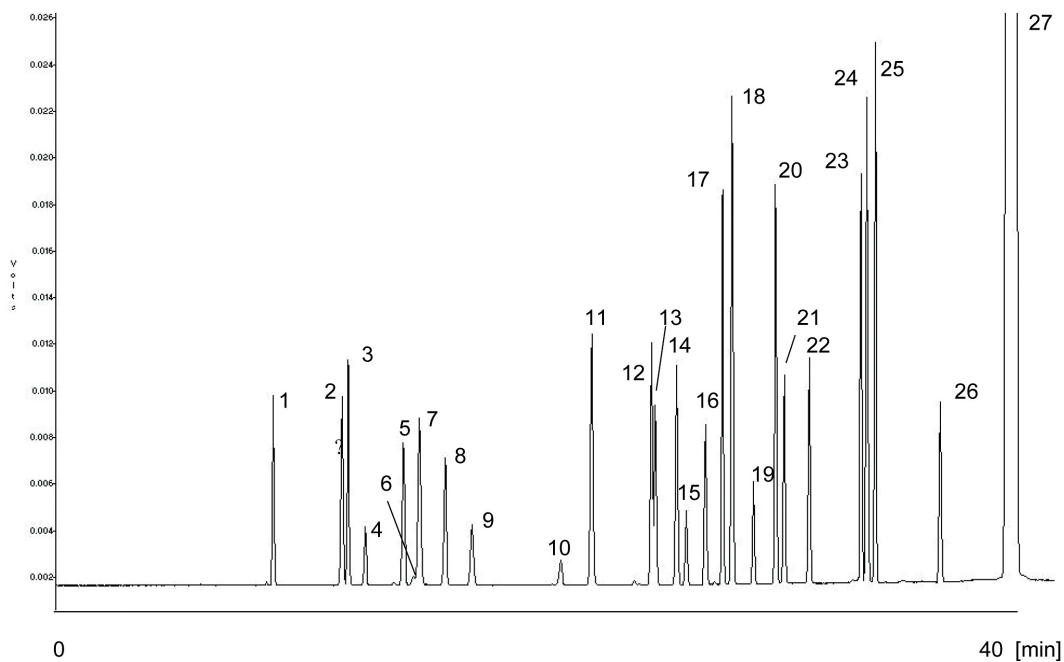
Conditions

Technique : GC-capillary
Column : Agilent FactorFour VF-624ms, 0.32 mm x 60 m fused silica (df = 1.8 μ m) (Part no. CP9105)
Temperature : 45 °C (20 min), 10 °C/min \rightarrow 250 °C
Carrier Gas : Helium, 1 ml/min, 75 kPa
Injector : Split, 1:100, 1 μ L
T = 250 °C
Detector : FID
Sample Concentration : 0.1%

Courtesy : Jan Peene and Peter Heijnsdijk,
Agilent application laboratory,
Middelburg, The Netherlands

Peak identification

1. methanol
2. pentane
3. ethanol
4. diethylether
5. acetone
6. dimethylsulfide
7. 2-propanol
8. acetonitrile
9. dichloromethane
10. n-hexane
11. 1-propanol
12. methylethylketone (MEK)
13. ethylacetate
14. tetrahydrofuran (THF)
15. trichloromethane
16. cyclohexane
17. benzene
18. 2-methylpropanol
19. heptane
20. trichloroethylene
21. n-butanol
22. 1,4-dioxane
23. methylisobutylketone (MIBK)
24. pyridine
25. toluene
26. n,n-dimethylformamide
27. dimethylsulfoxide



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This information is subject to change without notice.

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Printed in the USA

31 October, 2011

First published prior to 11 May, 2010

A02400



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