Solvents

Separation of chlorinated solvents

Application Note

Environmental

Authors

Agilent Technologies, Inc.

Introduction

Gas chromatography with an Agilent CP-Select 624 CB column separates 19 chlorinated solvents in 12 minutes.

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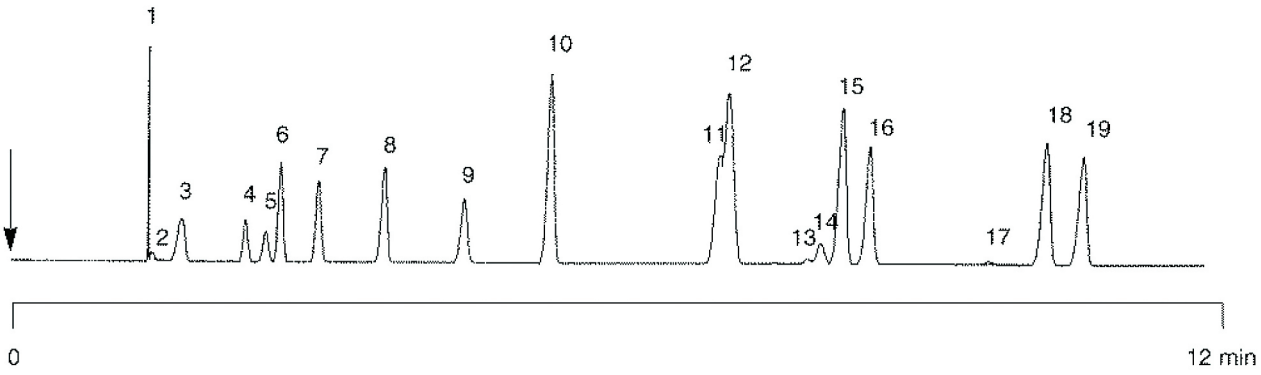
Conditions

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	: N_2, 10 mL/min
Injector	: Direct, T = 250 °C
Detector	: FID T = 250 °C
Sample Size	: 0.02 µL
Solvent Sample	: solvents mixture

Peak identification

1. 1,1-dichloroethylene
2. impurity
3. 1,2-dichloroethylene
4. trichloromethane (chloroform, CFC 20)
5. tetrachloromethane
6. 1,2-dichloroethane
7. trichloroethylene
8. epichlorohydrin
9. tetrachloroethylene
10. chlorobenzene
11. 2-chlorotoluene
12. 3-chlorotoluene
13. 1,3-dichlorobenzene
14. 1,4-dichlorobenzene
15. benzyl chloride
16. 1,2-dichlorobenzene
17. impurity
18. 1,2,4-trichlorobenzene
19. α,α-dich lorotoluene (benzal chloride)



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Printed in the USA
31 October, 2011
First published prior to 11 May, 2010
A01415

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