Solvents

Application Note

Materials Testing & Research

Authors

Agilent Technologies, Inc.

Introduction

GC analysis of 26 solvents used in inks is accomplished in 35 minutes with an Agilent Select 624 CB column.

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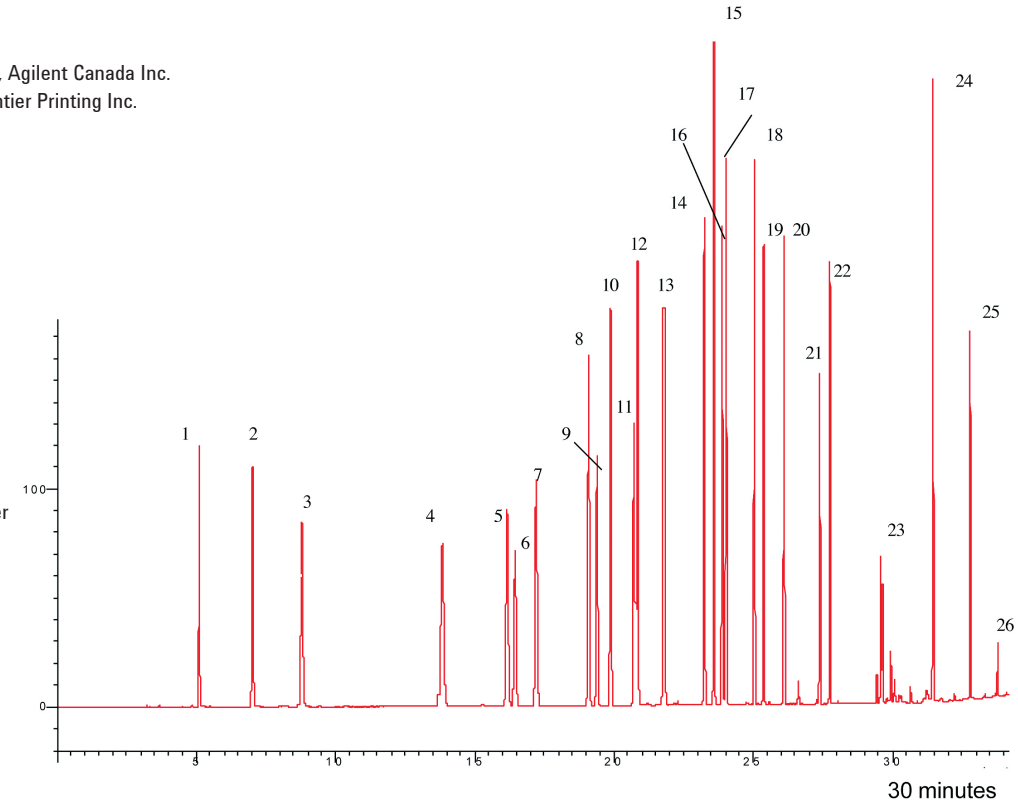
Conditions

Technique	:	GC-capillary
Column	:	Agilent CP-Select 624 CB, 0.32mm x 60 m fused silica (df = 1.4 µm) (Part No. CP7415)
Insert	:	packed cup insert PN392611933
GC	:	CP3900 with 1177 injection system
Temperature	:	40 °C, 15 min ⟶ 200 °C, 10 °C/min ⟶ 250 °C, 20 °C/min
Carrier Gas	:	Helium, constant flow, 1 mL/min
Injector	:	Splitter; split 1:50; Temperature 220 °C
Detector	:	FID
Sample	:	neat
Sample Size	:	0.2 µL
Concentration range	:	% level
Courtesy	:	Joy Jennison, Agilent Canada Inc. Gail Carr, Frontier Printing Inc.

Peak identification

1. methanol
2. ethanol
3. isopropylalcohol
4. n-propanal
5. MEK
6. ethylacetate
7. THF
8. isobutanol
9. isopropylacetate
10. heptane
11. propylene glycol mono methyl ether
12. n-butanol
13. n-propylacetate
14. MIBK
15. toluene
16. isobutylacetate
17. methyl isobutyl carbinol
18. n-butylacetate
19. ethylene glycol mono propyl ether
20. propylene glycol phenyl ether
21. cellosolve
22. butyl cellosolve
23. dipropylene glycol mono methyl ether
24. m-pyrol
25/26. diethylene glycol n-butyl ether



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