



Solvents in printed paper

Application Note

Materials Testing & Research

Authors

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Introduction

Head space analysis of 12 solvents in printed paper in 18 minutes using an Agilent FactorFour VF-5ms GC column.



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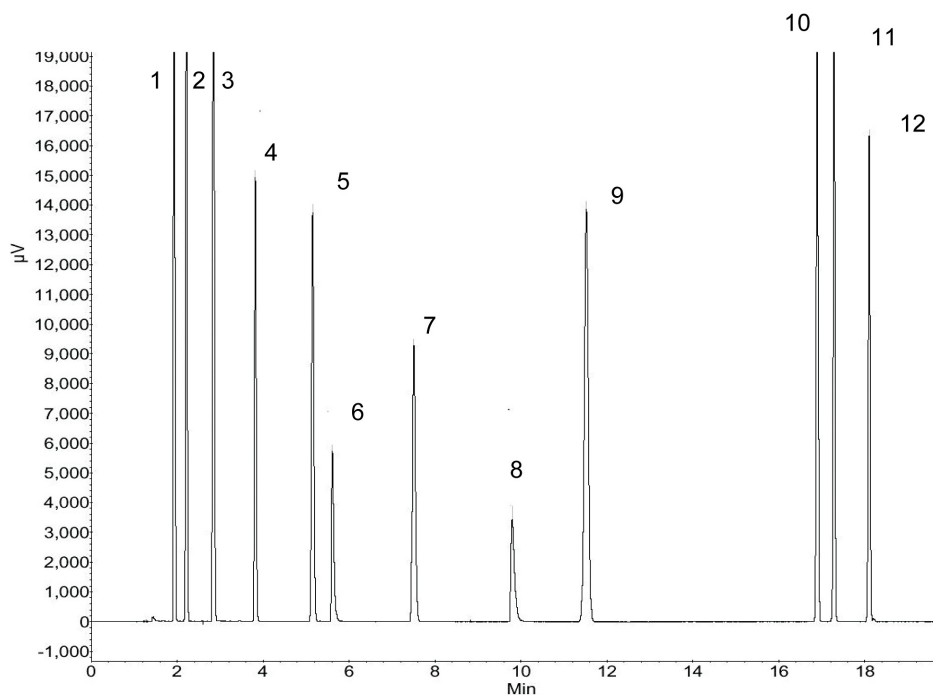
Conditions

Technique : GC-capillary
Column : Agilent FactorFour VF-5ms, 0.32 mm x 30 m fused silica (df = 1.0 μ m) (Part no: CP8957)
GC : 1177 Split/Splitless injector in FID, EFC
Temperature : 45 °C (12 min), 10 °C/min \rightarrow 100 °C (8 min)
Carrier Gas : He, 2 mL/min
Injector : Headspace, CombiPal CTC
Incubation : 80 °C (60 min shake)
Syringe : 80 °C
Tube : 120 °C
Sample Size : 1000 μ L
Solvent : triacetin
Injection : Split, 1:10, T : 150 °C
Detector : FID, T : 250 °C

Courtesy : Hans Naus, Gestel Printing Company, Eindhoven

Peak identification

Component	(conc mg/m ²)
1. ethanol	38.100
2. iso-propanol	37.500
3. n-propanol	37.800
4. ethylacetate	37.900
5. iso-propylacetate	37.600
6. 1-methoxy-2-propanol	37.400
7. propylacetate	37.700
9. toluene	37.700
10. ethylbenzene	37.700
11. m- and p-xylene	37.600
12. o-xylene	37.500



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This information is subject to change without notice.

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