

CoreFocus
Report
No.343

GC

FID

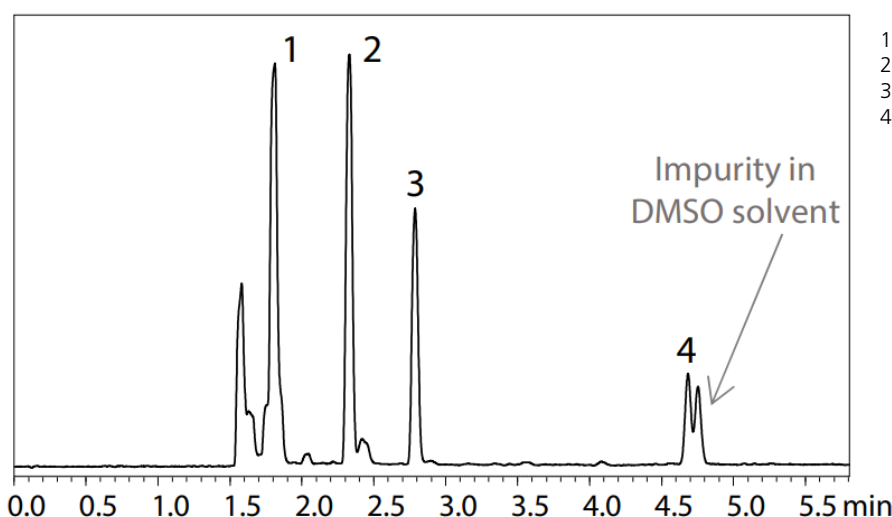
HS

SH Series

SH-PolarWax

Analysis of Residual Solvents in Pharmaceuticals

Keywords: Water-Insoluble Samples, N₂ Carrier, JP17 Supplement II, USP 467



1. 1,1-Dichloroethane
2. 1,1,1-Trichloroethane + Carbon tetrachloride
3. Benzene
4. 1,2-Dichloroethane

Main Unit	: Nexis™ GC-2030
Detector	: FID-2030 flame ionization detector
Column	: SH-PolarWax (30 m x 0.32 mm I.D. df = 0.25 μm), P/N: 221-75972-30
Column Temp.	: 50 °C (20 min) - 6 °C/min - 165 °C (20 min) Total 59.17 min
Injection Mode	: Split 1:10
Carrier Gas Controller	: Linear Velocity (N ₂)
Linear Velocity	: 35 cm/s
Detector Temp.	: 250 °C
FID H ₂ Flow Rate	: 32 mL/min
FID Make Up Flow Rate	: 24 mL/min (N ₂)
FID Air Flow Rate	: 200 mL
Injection Volume	: 1 mL

HS-20	
Oven Temp.	: 80 °C
Sample Line Temp.	: 90 °C
Transfer Line Temp.	: 105 °C
Vial Shaking Level	: Off
Vial Volume	: 20 mL
Vial Equilibrating Time	: 45 min
Vial Pressurization Time	: 1 min
Vial Pressure	: 68.9 kPa
Loading Time	: 0.5 min
Needle Flush Time	: 5 min

Source : Application News G326 ([JP](#), [ENG](#))

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