

CoreFocus
Report
No.321

GC

FID

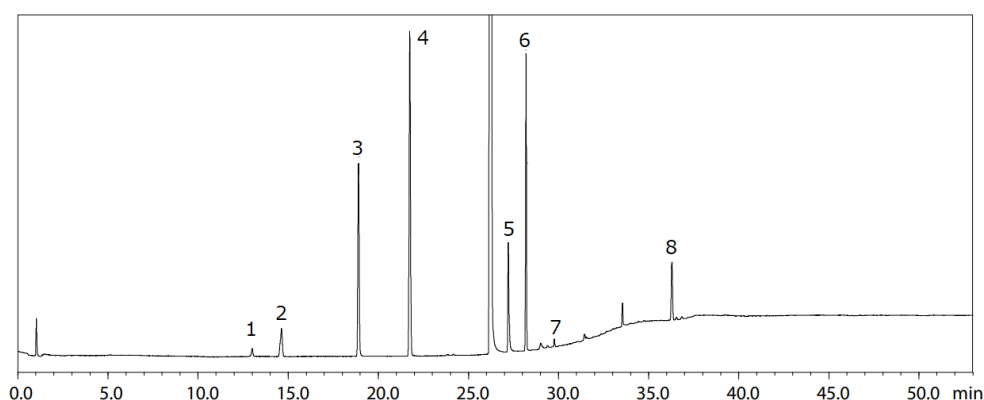
AOC

SH Series

SH-PolarWax

Analysis of Residual Solvents in Pharmaceuticals

Keywords: Class 2 Solvents, Water-Soluble Samples



1. 2-Methoxyethanol
2. 2-Ethoxyethanol
3. N,N-Dimethylformamide
4. N,N-Dimethylacetamide
5. Ethylene glycol
6. N-Methylpyrrolidone
7. Formamide
8. Sulfolane

Model	: Nexis™ GC-2030 + AOC-20i Plus
Detector	: FID-2030 flame ionization detector
Injection temperature	: 160 °C
Column	: SH-PolarWax (30 m x 0.53 mm I.D. df = 1 μm), P/N: 221-75979-30
Column temperature	: 50 °C(7 min) - 4 °C/min - 110 °C (0 min.) - 10 °C /min - 220 °C (20 min*) Total: 53 min
High press injection	: High pressure injection, automatic (48 kPa, 0.5 min)
Carrier gas controller	: Pressure mode (He)
Pressure	: 26.6 kPa (during analysis)
Injection mode	: Split 1:1 (0.5 min) (during injection)

Total flow	: 23 mL/min
Linear velocity	: 37.0 cm/s (26.6 kPa, 50 °C)
Column flow	: 5.1 mL/min (26.6 kPa, 50 °C)
Purge flow	: 3 mL/min
Detector temperature	: 240 °C
Detector Gas	: H ₂ 32.0 mL/min, Air 200 mL/min
Makeup Gas	: He 24 mL/min
Injection Volume	: 1 μL
Syringe	: Elastic syringe, AOC (P/N: 221- 49548)

- Since the sample solution may contain high boiling point components, it is recommended to set a long hold time at 220 °C.

Source : Application News G303 ([JP](#), [ENG](#))

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Related Products

Some products may be updated to newer models.

HPLC Column Solutions – Reversed phase and Normal phase –
Shim-pack

➤ SH-PolarWax

Related Solutions

➤ Small Molecule
Pharmaceutical

➤ 低分子医薬品

➤ Price Inquiry

➤ Product Inquiry

➤ Technical Service /
Support Inquiry

➤ Other Inquiry