

CoreFocus Report

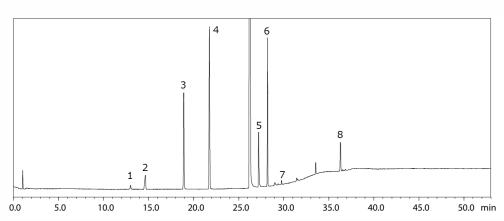
No.321

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

: Nexis[™] GC-2030 + AOC-20i Plus Model : FID-2030 flame ionization detector Detector

Injection temperature :160°C

Column : SH-PolarWax (30 m x 0.53 mm I.D. df = 1 μ m),

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)

: Split 1:1 (0.5 min) (during injection) Injection mode

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

: H₂ 32.0 mL/min, Air 200 mL/min Detector Gas

Makeup Gas : He 24 mL/min

Injection Volume

Elastic syringe, AOC (P/N: 221-Syringe

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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