Trace solvents in absolute ethanol

Application Note

BioPharma

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Introduction
This analysis can be done very well with the VF-1701ms phase. Original residual solvent methods in pharma use the VF-624ms columns which has thicker film especially to maximise separation and loadability for the most volatile solvents, see also Application 2402.
Conditions

Technique: GC-capillary
Column: Agilent FactorFour VF-1701ms, 0.32 mm x 30 m fused silica (df = 1.0 μm) (Part no. CP9163)
Temperature: 40 °C (12 min) → 240 °C, 10 °C/min
Carrier Gas: Helium, 1 mL/min
Injector: Split, 1:20,
          T = 200 °C
Detector: FID
          T = 280 °C
Sample: ppm in ethanol

Peak identification
1. methanol
2. ethanol
3. unknown
4. benzene
5. acetal
6. 4-methyl-pentan-2-ol