



VARIAN

# Consumable Products

Application  
Note

## Trace solvents in absolut ethanol

Application 2408 GC

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.

Technique : GC-Capillary

Column : Fused Silica 30 m x 0.32 mm FactorFour VF-1701ms, df = 1.0  $\mu$ m  
Part no.: CP9163

Temperature : 40  $^{\circ}$ C, 12 min,  $\rightarrow$  240  $^{\circ}$ C, 10  $^{\circ}$ C/min

Carrier gas : Helium, 1 mL/min

Injector : Split, 1:20, Temperature: 200  $^{\circ}$ C

Detector : FID, Temperature: 280  $^{\circ}$ C

Sample : ppm in ethanol

### Peak Identification

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

