



## **Solvents**

# Determination of water in solvents

## Application Note

Materials Testing & Research

### **Authors**

Agilent Technologies, Inc.

### **Introduction**

Gas chromatography with an Agilent CP-Wax 52 CB column separates water in nine solvents in less than seven minutes.



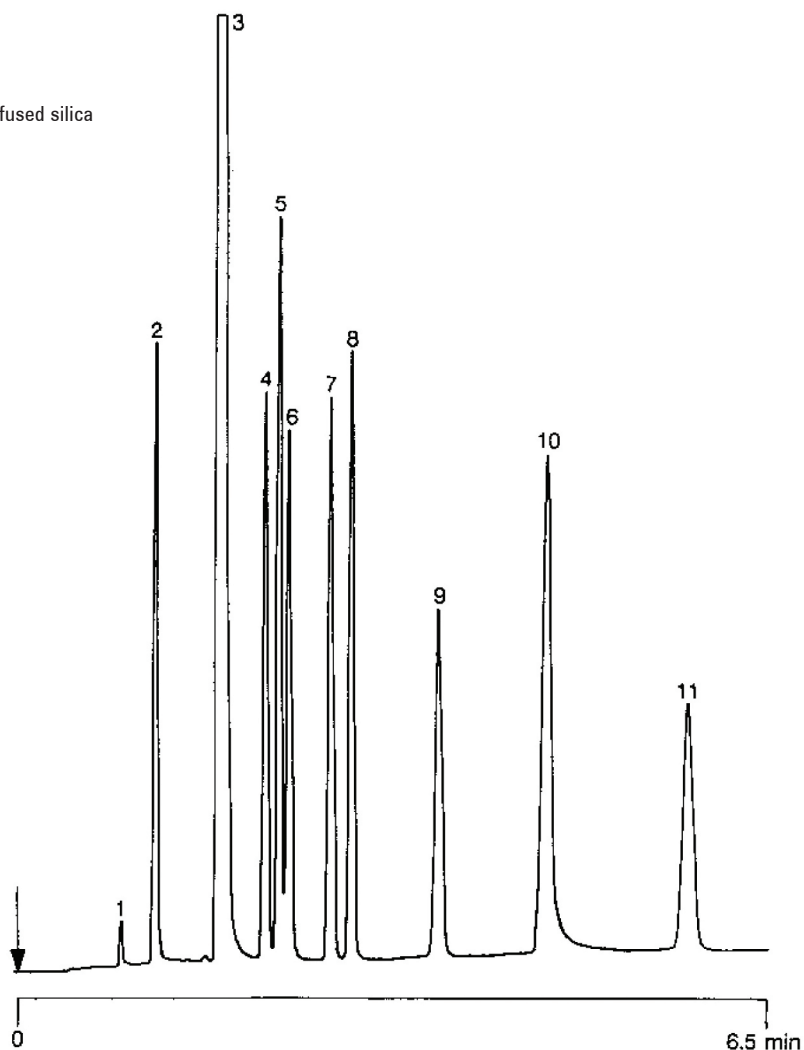
**Agilent Technologies**

## Conditions

Technique : GC-capillary  
Column : Agilent CP-Wax 52 CB, 0.32 mm x 25 m fused silica  
WCOT CP-Wax 52 CB (df = 1.2 µm)  
(Part no. CP7763)  
Temperature : 60 °C  
Carrier Gas : H<sub>2</sub>, 90 kPa (0.9 bar, 13 psi)  
Injector : Splitter, 1:100  
T = 150 °C  
Detector : TCD  
T = 150 °C  
Sample Size : 0.5 µL  
Concentration Range : 0.5% v/v  
Solvent Sample : acetone

## Peak identification

1. air
2. isopropylether
3. acetone
4. dichloromethane
5. methanol
6. ethyl acetate
7. ethanol
- a. tetrahydrofuran
9. methyl propyl ketone
10. water
11. dioxane



[www.agilent.com/chem](http://www.agilent.com/chem)

This information is subject to change without notice.

© Agilent Technologies, Inc. 2011

Printed in the USA

31 October, 2011

First published prior to 11 May, 2010

A00582



**Agilent Technologies**