



Alcohols

Fast analysis of alcohols in alcoholic beverages

Application Note

Food Testing & Agriculture

Authors

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Introduction

The Agilent CP-Wax 57 CB phase shows excellent stability and selectivity for the analysis of volatile compounds in water-alcohol mixtures. This stationary phase is also available coated on 0.15 μm id fused silica columns allowing shortest possible analysis times. Due to the intensive crosslinking, the column can survive many injections of alcoholic beverages and is therefore recommended for this analysis



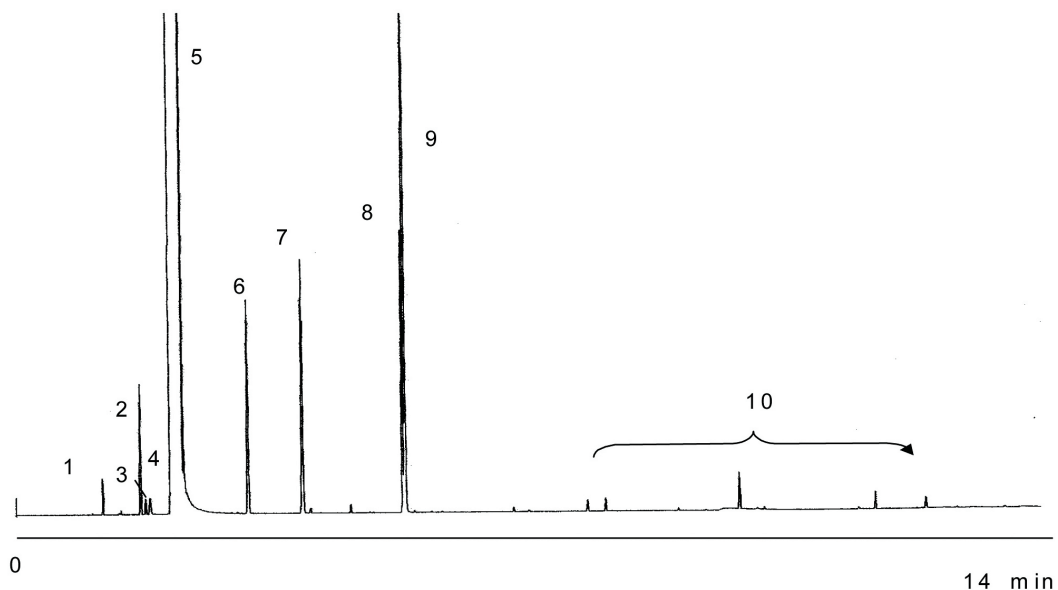
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Conditions

Technique : GC
Column : Agilent CP-Wax 57 CB, 0.15 mm × 30 m, 0.12 μm
(p/n CP97721)
Temperature : 45 °C, (2.2 min) → 180 °C, 15 °C/min
Carrier Gas : Hydrogen, 240 kPa, 57 cm/s
Injector : Split 1:100
Detector : FID
Sample Size : 0.5 μL
Concentration Range : 0.1%
Solvent Sample : water:alcohol 60:40 (malt whiskey)
Courtesy : Kevin MacNamara, Irish Distillers, Dublin

Peak identification

1. Acetaldehyde
2. Ethyl acetate
3. Acetal
4. Methanol
5. Ethanol
6. Propanol
7. Isobutanol
8. 2-Methyl-1-butanol
9. 3-Methyl-1-butanol
10. Esters



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This information is subject to change without notice.

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