Alcohols and esters

Analysis of volatile compounds in beer

Application Note

Food Testing & Agriculture

Authors

Agilent Technologies, Inc.

Introduction

Gas chromatography with an Agilent CP-Carbowax 400 for Volatiles in Alcohol column separates 11 alcohols and esters in beer in 12 minutes.

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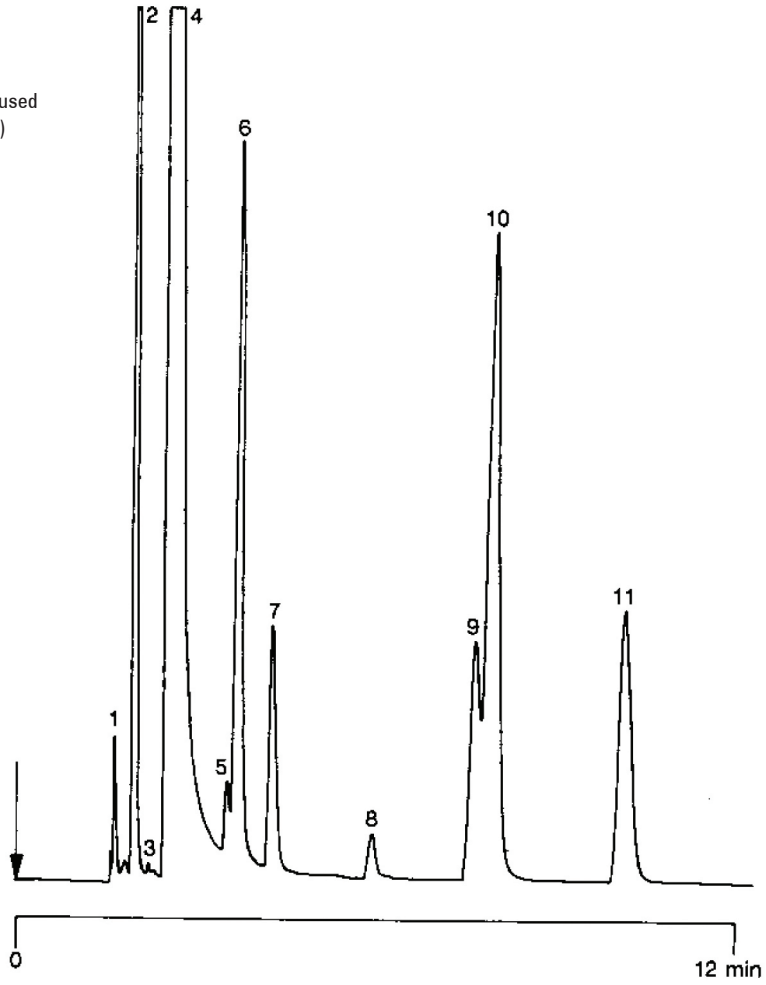
Conditions

Technique	:	GC-capillary
Column	:	Agilent CP-Carbowax 400, 0.32mm x 50 m fused silica WCOT CP-Carbowax 400 (df = 0.2 µm) (Part no. CP7527)
Temperature	:	60 °C
Carrier Gas	:	H_2, 70 kPa (0.7 bar, 10 psi)
Injector	:	Splitter, 40 mL/min (1:20) T = 125 °C
Detector	:	FID, 2^4 T = 145 °C
Sample Size	:	1 mL headspace
Courtesy	:	Mr. H. Klein, Österreichische Brau-AG, Qualitätssicherung + Entwicklung, Linz, Österreich



Peak identification

1. acetaldehyde
2. ethyl acetate
3. methanol
4. ethanol
5. n-propanol
6. isoamyl acetate
7. 2-methylpropanol
8. hexyl acetate
9. 2-methyl-1-butanol
10. 3-methyl-1-butanol
11. n-pentanol (I.S.)

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