Alcohols
Analysis of alcohols in red wine

Application Note

Food Testing & Agriculture

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Introduction
Gas chromatography with an Agilent CP-Wax 52 CB column separates eight alcohols in red wine in 16 minutes.
Conditions

Technique: GC-capillary

Column: Agilent CP-Wax 52 CB, 0.25 mm x 50 m fused silica
WCOT CP-Wax 52 CB (df = 0.2 μm)
(Part no. CP7723)

Temperature: 45 °C (5 min) → 100 °C, 3 °C/min

Carrier Gas: H₂, 56 kPa (0.56 bar, 8 psi)

Injector: Splitter, 80 mL/min
T = 230 °C

Detector: FID
T = 250 °C

Sample Size: 1 μL

Courtesy: J. N. Boidron, Université de Bordeaux II, Institut d’œnologie, Cours de la Libération 351, 33405 Talence, France

Peak identification

1. acetaldehyde
2. ethylacetate
3. methanol
4. ethanol
5. n-propanol
6. 2 methyl-1-propanol
7. n-butanol
8. 2 methyl-1-butanol + 3 methyl-1-butanol