Alcohols, $C_4 - C_8$

Application Note

Environmental

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Introduction
Gas chromatography with an Agilent CP-Wax 52 CB column separates ten $C_4$ to $C_8$ volatile alcohols in eight minutes.
**Conditions**

Technique: GC-capillary  
Column: Agilent CP-Wax 52 CB, 0.53 mm x 25 m fused silica  
WCOT CP-Wax 52 CB (2.0 µm) (Part no. CP7658)  
Temperature: 50 °C → 200 °C, 10 °C/min  
Carrier Gas: N₂, 47 cm/s (10 mL/min)  
Injector: Direct  
  T = 250 °C  
Detector: FID, 100 x 10⁻¹² Afs  
  T = 275 °C  
Sample Size: 0.2 µL  
Concentration Range: 1 %  
Solvent Sample: water

**Peak identification**

1. tert. butanol  
2. 2-methyl-2-butanol  
3. 2-butanol  
4. 3-methyl-2-butanol  
5. 1-butanol  
6. 4-methyl-1-pentanol  
7. 2-methyl-1-butanol  
8. 2-ethyl-1-butanol  
9. 2-heptanol  
10. 2-ethyl-1-hexanol

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