Alcohols, $C_{11} - C_{12}$

Application Note

Materials Testing & Research

Authors
Agilent Technologies, Inc.

Introduction
Gas chromatography with an Agilent CP-Chirasil-DEX CB column separates nine branched $C_{11}$ to $C_{12}$ alcohols in 70 minutes.
Conditions

Technique: GC-capillary

Column: Agilent CP-Chirasil-DEX CB, 0.25 mm x 25 m fused silica WCOT CP-Chirasil-DEX CB (df = 0.25 μm)

(Part no. CP7502)

Temperature: 100 °C

Carrier Gas: H₂, 70 kPa (0.7 bar, 10 psi)

Injector: Split, 1:100

Detector: FID

Sample Size: 1 μL

Courtesy: Mr I. Španík, Dr. J. Krupčík, Department of Analytical Chemistry, Faculty of Chemical Technology, Slovak Technical University, Bratislava, Slovak Republic

Peak identification

1. 2-butyl-1-heptanol
2. 2-propyl-1-octanol
3. 2-ethyl-1-nonanol
4. 2-methyl-1-decanol
5. undecanol
6. 2-pentyl-1-heptanol
7. 2-butyl-1-octanol
8. 2-propyl-1-nonanol
9. 2-ethyl-1-decanol