Flavors and aromas
Separation of a-pinene, limonene and linalool

Application Note

Food Testing & Agriculture

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Introduction
Agilent CP-Chirasil-Dex CB is one of the few chiral stationary phases that is chemically bonded and combines a high selectivity with a high inertness for optical isomers. The majority of compounds can be analyzed without derivatization. Resolution factors can be improved by using electronic pressure or flow programming.
**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:  
Chromatogram A: 85 °C  
Chromatogram B: 100 °C  
Carrier Gas: H₂, 50 kPa (0.5 bar, 7 psi)  
Injector: Split, 100 mL/min  
T = 275 °C  
Detector: FID  
T = 300 °C  
Sample Size: 0.2 μL  
Concentration Range: 0.05 %

**Peak identification**

1. α-pinene  
2. limonene  
3. linalool

**Chromatogram A**

**Chromatogram B**

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This information is subject to change without notice.  
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