Flavors
Enantiomer separation of dihydrodamascenes

Application Note

Food Testing & Agriculture

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Introduction
Enantiomeric separation of dihydrodamascenes by gas chromatography with an Agilent CP-Cyclodextrin-B-2,3,6-M-19 column is achieved 45 minutes.
Conditions

Technique: GC-capillary

Column: Agilent CP-Cyclodextrin-B-2,3,6-M-19, 0.25 mm x 50 m fused silica WCOT CP-Cyclodextrin-B-2,3,6-M-19 (df = 0.25 μm) (Part no. CP7501)

Temperature: 120 °C

Carrier Gas: He, 180 kPa (1.8 bar, 26 psi), 1 mL/min

Injector: Splitter, 1:50
T = 250 °C

Detector: FID, 16 x 10^-12 Afs
T = 250 °C

Sample Size: 0.4 μL

Concentration Range: 1%

Courtesy: GL Sciences, Japan

Peak identification

1. (+)-dihydrodamascone
2. (-)-dihydrodamascone