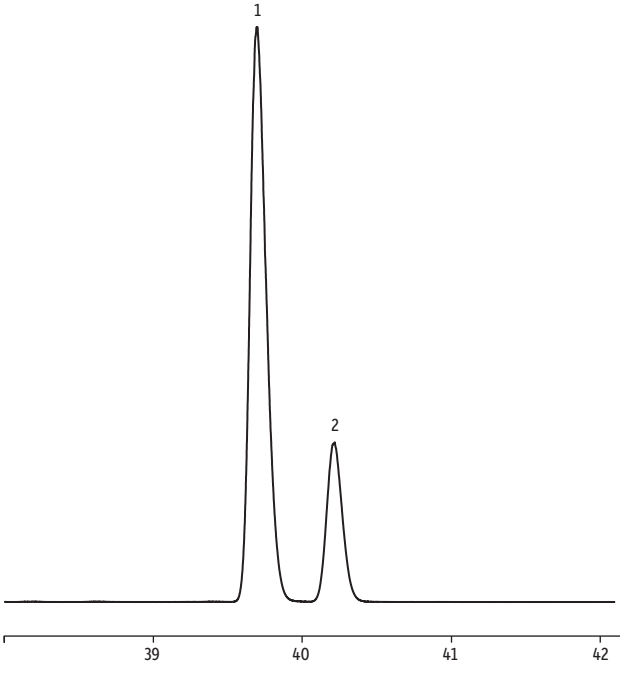
Carvone on Rt-βDEXsa



GC_FF1369

Peaks	t_R (min)	Conc. (mg/mL)
1. R(-)-Carvone	36.697	1
2. S(+)-Carvone	40.217	0.5

Column	Rt-βDEXsa, 30 m, 0.32 mm ID, 0.25 µm (cat.# 13108)
Standard/Sample	R(-)-Carvone S(+)-Carvone
Diluent:	Acetone
Injection	
Inj. Vol.:	1 µL split (split ratio 100:1)
Liner:	Topaz 4.0 mm ID Precision inlet liner w/ wool (cat.# 23305)
Inj. Temp.:	210 °C
Oven	
Oven Temp.:	40 °C (hold 1 min) to 230 °C at 2 °C/min (hold 3 min)
Carrier Gas	H_2, constant flow
Linear Velocity:	80 cm/sec @ 40 °C
Detector	FID @ 230 °C
Constant Column + Constant Make-up:	51.4 mL/min
Make-up Gas Type:	N_2
Hydrogen flow:	40 mL/min
Air flow:	400 mL/min
Data Rate:	50 Hz
Instrument	Agilent 7890A GC
Sample Preparation	R(-)-Carvone and S(+)-Carvone (neat) were dissolved in acetone to a final concentration of 1000 and 500 ppm (respectively) in 2 mL, screw-thread vials (cat.# 21143), and capped with short-cap, screw-vial closures (cat.# 24495).
Notes	Enantiomeric resolution of carvone was 3.0.