

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-06-05 10:32:36
 Date of Next Testing: 2028-06-04 10:32:36
 Product Name: (S)-(+)-Carvone
 CAS Number: 2244-16-8
 Specifications & Purity: $\geq 97\%$
 Lot #: I2003139
 SKU #: C107832
 Version: 0
 Analysis #: 364527
 Storage Temperature: Protected from light, Room temperature, Argon charged

Parameter	Limit Values	Result
Purity(GC)	97-100 (%)	97.78600 %
Refractive index n ₂₀ /D	1.498-1.5	1.49900
Specific Rotation	57-62 (°)	57.31000 °
[α] ₂₀ /D(c=Neat)		
Density (20°C)	0.961-0.966	0.96280
Appearance (C107832)	Colorless to Light Yellow or Yellow-Green Liquid	Colorless to Light Yellow or Yellow-Green Liquid
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager