

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-03-27 13:22:18
 Date of Next Testing: 2027-03-26 13:22:18
 Product Name: (S)-(+)-Carvone
 CAS Number: 2244-16-8
 Specifications & Purity: $\geq 97\%$
 Lot #: C2323029
 SKU #: C107832
 Version: 0
 Analysis #: 047708
 Storage Temperature: Protected from light, Room temperature, Argon charged

Parameter	Limit Values	Result
Purity(GC)	97-100 (%)	98.09900 %
Refractive index n ₂₀ /D	1.498-1.5	1.49918
Density (20°C)	0.961-0.966	0.96400
Specific Rotation [α] ₂₀ /D(c=Neat)	57-62 (°)	57.01200 °
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