

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-07-20 14:48:09  
Date of Next Testing: 2027-07-19 14:48:09  
Product Name: **(S)-(-)-1-(1-Naphthyl)ethylamine**  
CAS Number: 10420-89-0  
Specifications & Purity: 99%  
Lot #: G23131081  
SKU #: **N122375**  
**Analysis:** **213222**  
Storage Temperature: Store at 2-8°C, Argon charged

Parameter	Limit Values	Result
Purity(Titration by HClO <sub>4</sub> )	98.5-101.5 (%)	100.58 %
Density (20°C)	1.066-1.069	1.07
Refractive index n <sub>20</sub> /D	1.621-1.624	1.62
Enantiometric Excess	98-100 (%)	99.52 %
Specific Rotation [α] <sub>20</sub> /D(c=Neat)	-82--79 (°)	-81.56 °
Purity(GC)	99-100 (%)	99.26 %
Appearance (N122375)	colorless to yellow to brown liquid	colorless to yellow to brown liquid
Proton NMR spectrum	Conforms to structure	Conforms to Structure



John Su  
QA & QC Manager