

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-05-22 09:22:36  
Date of Next Testing: 2027-05-21 09:22:36  
Product Name: **(S)-(-)-1-Phenylethylamine**  
CAS Number: 2627-86-3  
Specifications & Purity:  $\geq 99\%$ (GC)  
Lot #: E2309703  
SKU #: **M105679**  
Version: **1**  
Analysis #: **162445**  
Storage Temperature: Store at 2-8°C, Argon charged

Parameter	Limit Values	Result
Purity(GC)	99-100 (%)	99.61%
Purity(Titration by HClO <sub>4</sub> )	97.5-102.5 (%)	98.81%
Refractive index n <sub>20</sub> /D	1.525-1.528	1.53
Density (20°C)	0.951-0.956	0.95
Enantiometric Excess	99-100 (%)	99.01%
Specific Rotation [α] <sub>20</sub> /D(c=Neat)	-41--37 (°)	-37.01°
Appearance (M105679)	Colorless to Very Light Yellow liquid	Colorless to Very Light Yellow liquid
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager