

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-07-27 16:19:07  
 Date of Next Testing: 2027-07-26 16:19:07  
 Product Name: (S)-(-)-1-Phenylethylamine  
 CAS Number: 2627-86-3  
 Specifications & Purity:  $\geq 99\%$ (GC)  
 Lot #: G2326328  
 SKU #: M105679  
 Version: 1  
 Analysis #: 245858  
 Storage Temperature: Store at 2-8°C, Argon charged

| Parameter                                      | Limit Values                          | Result                                |
|------------------------------------------------|---------------------------------------|---------------------------------------|
| Purity(GC)                                     | 99-100 (%)                            | 99.71500 %                            |
| Purity(Titration by HClO <sub>4</sub> )        | 97.5-102.5 (%)                        | 100.07000 %                           |
| Refractive index n <sub>20</sub> /D            | 1.525-1.528                           | 1.52680                               |
| Density (20°C)                                 | 0.951-0.956                           | 0.95290                               |
| Specific Rotation [α] <sub>20</sub> /D(c=Neat) | -41--37 (°)                           | -37.01000 °                           |
| Enantiometric Excess                           | 98-100 (%)                            | 98.01000 %                            |
| 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