

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-05-10 10:07:26

Date of Next Testing: 2025-05-09 10:07:26

Product Name: (S)-(-)-1-Phenylpropylamine

CAS Number: 3789-59-1

Specifications & Purity:  $\geq 99\%$ ,  $\geq 99\%$ (ee)

Lot #: J1523097

SKU #: S135110

Version: 1

Analysis #: 220600

Storage Temperature: Store at 2-8°C, Argon charged

| Parameter                                                  | Limit Values                     | Result                           |
|------------------------------------------------------------|----------------------------------|----------------------------------|
| Purity(GC)                                                 | 99-100 (%)                       | 99.20600 %                       |
| Enantiometric Excess                                       | 99-100 (%)                       | 99.50000 %                       |
| Density (20°C)                                             | 0.943-0.947                      | 0.94500                          |
| Specific Rotation $[\alpha]_{20/D}(c=1 \text{ in CHCL}_3)$ | -19--16 (°)                      | -17.20000 °                      |
| Appearance (S135110)                                       | Colorless to light yellow liquid | Colorless to light yellow liquid |
| Proton NMR spectrum                                        | Conforms to Structure            | Conforms to Structure            |



John Su  
QA & QC Manager