

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2024-12-20 18:54:18

Date of Next Testing: 2027-12-20 18:54:18

Product Name: (S)-(+)-4-Phenyl-2-butanol

CAS Number: 22148-86-3

Specifications & Purity:  $\geq 98\%$

Lot #: L2409449

SKU #: I168710

Version: 0

Analysis #: 370510

Storage Temperature: Room temperature

| Parameter                           | Limit Values          | Result                |
|-------------------------------------|-----------------------|-----------------------|
| Purity(GC)                          | 98-100 (%)            | 98.15000 %            |
| Optical purity(ee)                  | 98-100 (%)            | 98.02000 %            |
| Refractive index n <sub>20</sub> /D | 1.515-1.519           | 1.51760               |
| Appearance (I168710)                | Colorless liquid      | Colorless liquid      |
| Proton NMR spectrum                 | Conforms to Structure | Conforms to Structure |



John Su  
QA & QC Manager