

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2025-09-10 14:35:49  
 Date of Next Testing: 2029-09-09 14:35:49  
 Product Name: (R)-(+)-4-Chloro-3-hydroxybutyronitrile  
 CAS Number: 84367-31-7  
 Specifications & Purity:  $\geq 97\%$   
 Lot #: K2120341  
 SKU #: C123021  
 Version: 0  
 Analysis #: 568469  
 Storage Temperature: Room temperature, Argon charged

| Parameter                                          | Limit Values               | Result                     |
|----------------------------------------------------|----------------------------|----------------------------|
| Purity(GC)                                         | 97-100 (%)                 | 98.12000 %                 |
| Density (20°C)                                     | 1.248-1.252                | 1.24900                    |
| Specific Rotation $[\alpha]_{20/D}(c=\text{Neat})$ | 12-14 (°)                  | 12.90000 °                 |
| Refractive index $n_{20/D}$                        | 1.472-1.476                | 1.47300                    |
| Appearance (C123021)                               | Colorless to Yellow Liquid | Colorless to Yellow Liquid |
| Infrared spectrum                                  | Conforms to Structure      | Conforms to Structure      |



John Su  
QA & QC Manager