

## Certificate of Analysis

Date of Testing: 2025-04-03 17:32:47  
 Date of Next Testing: 2028-04-02 17:32:47  
 Product Name: (R)-(-)-VAPOL hydrogenphosphate  
 CAS Number: 871130-18-6  
 Specifications & Purity:  $\geq 98\%$ ,  $\geq 99\%$ (ee)  
 Lot #: C2519739  
 SKU #: H282302  
 Version: 2  
 Analysis #: 169364  
 Storage Temperature: Store at 2-8°C, Argon charged

| Parameter           | Limit Values                 | Result                       |
|---------------------|------------------------------|------------------------------|
| Purity(HPLC area)   | 98-100 (%)                   | 98.00 %                      |
| Enantiomeric Excess | 99-100 (%)                   | 99.00000 %                   |
| NMR Spectrum 1H     | Conforms to Structure        | Conforms to Structure        |
| Appearance(H282302) | White to yellow to Tan Solid | White to yellow to tan solid |
| 31P NMR spectrum    | Conforms to structure        | Conforms to Structure        |



John Su  
QA & QC Manager