

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-06-13 13:25:17  
 Date of Next Testing: 2025-06-02 13:25:17  
 Product Name: **1,2-Bis(dimethylphosphino)ethane**  
 CAS Number: 23936-60-9  
 Specifications & Purity:  $\geq 97\%$   
 Lot #: I2113048  
 SKU #: **B115375**  
 Version: **0**  
 Analysis #: **240400**  
 Storage Temperature: Room temperature, Argon charged

| Parameter                          | Limit Values                     | Result                           |
|------------------------------------|----------------------------------|----------------------------------|
| Refractive index n <sub>20/D</sub> | 1.505-1.511                      | 1.50900                          |
| Purity(GC)                         | 97-100 (%)                       | 98.02500 %                       |
| Appearance (B115375)               | Colorless to light yellow liquid | Colorless to light yellow liquid |
| Proton NMR spectrum                | Conforms to Structure            | Conforms to Structure            |



John Su  
QA & QC Manager