

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-05-18 09:42:40  
Date of Next Testing: 2027-05-17 09:42:40  
Product Name: **Tris(diethylamino)phosphine**  
CAS Number: 2283-11-6  
Specifications & Purity: 97%  
Lot #: E2305911  
SKU #: **T124747**  
**Analysis:** **051118**  
Storage Temperature: Argon charged

| Parameter                           | Limit Values                     | Result                           |
|-------------------------------------|----------------------------------|----------------------------------|
| Refractive index n <sub>20</sub> /D | 1.471-1.475                      | 1.47                             |
| Purity(GC)                          | 97-100 (%)                       | 98.10 %                          |
| Density (20°C)                      | 0.898-0.903                      | 0.90                             |
| Appearance (T124747)                | Colorless to light yellow liquid | Colorless to light yellow liquid |
| Infrared spectrum                   | Conforms to Structure            | Conforms to Structure            |
| Proton NMR spectrum                 | Conforms to Structure            | Conforms to Structure            |



John Su  
QA & QC Manager