

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2025-04-11 10:23:25  
 Date of Next Testing: 2027-04-01 10:23:25  
 Product Name: (Tri-n-butyl)-n-tetradecylphosphonium chloride  
 CAS Number: 81741-28-8  
 Specifications & Purity: ≥97%  
 Lot #: C2526593  
 SKU #: T121853  
 Version: 1  
 Analysis #: 496957  
 Storage Temperature: Room temperature, Argon charged

| Parameter                               | Limit Values                                           | Result                                                 |
|-----------------------------------------|--------------------------------------------------------|--------------------------------------------------------|
| Purity(Titration by AgNO <sub>3</sub> ) | 96.5-103.5 (%)                                         | 96.83000 %                                             |
| Appearance (T121853)                    | White to Off-White to yellow Powder or Solid or Chunks | White to Off-White to Yellow Powder or Solid or Chunks |
| Infrared spectrum                       | Conforms to Structure                                  | Conforms to Structure                                  |
| Proton NMR spectrum                     | Conforms to Structure                                  | Conforms to Structure                                  |



John Su  
QA & QC Manager