

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2022-07-04 15:37:56

Date of Next Testing: 2024-07-03 15:37:56

Product Name: **Tetrabutylammonium chloride hydrate**

CAS Number: 37451-68-6

Specifications & Purity:  $\geq 98\%$

Lot #: E2230063

SKU #: **T138759**

Version: **0**

Analysis #: **076379**

Storage Temperature: Room temperature, Argon charged, Desiccated, Cool

| Parameter                                                | Limit Values                                 | Result                                       |
|----------------------------------------------------------|----------------------------------------------|----------------------------------------------|
| Water by Karl Fischer                                    | 0-10 (%)                                     | 4.83560 %                                    |
| Purity(Titration by AgNO <sub>3</sub> )(anhydrous basis) | 97.5-102.5 (%)                               | 101.38000 %                                  |
| Appearance (T138759)                                     | White to Off-White Powder or Solid or Chunks | White to Off-White Powder or Solid or Chunks |
| Infrared spectrum                                        | Conforms to Structure                        | Conforms to Structure                        |
| Proton NMR spectrum                                      | Conforms to Structure                        | Conforms to Structure                        |
| Solubility in EtOH , Colorless to Pale Yellow            | pass                                         | Pass                                         |
| Clear(50 mg/ml)                                          |                                              |                                              |



John Su  
QA & QC Manager