

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2024-03-20 10:38:43  
Date of Next Testing: 2026-03-10 10:38:43  
Product Name: **p-Toluenesulfonyl chloride(PTSC)**  
CAS Number: 98-59-9  
Specifications & Purity: reagent grade,98%  
Lot #: C2408535  
SKU #: **T104622**  
Analysis: **334611**

| Parameter                               | Limit Values                                     | Result   |
|---|--|--|
| Purity(Titration by AgNO <sub>3</sub> ) | 98-102 (%)                                       | 100.36 %   |
| Purity(GC)                              | 98-100 (%)                                       | 99.03 %  |
| Melting point                           | 67-71 (°C)                                       | 69.70000 °C                                      |
| Appearance (T104622)                    | White to off-white powder, needles and/or Chunks | White to off-white powder, needles and/or Chunks |
| Infrared spectrum                       | Conforms to Structure                            | Conforms to Structure                            |



John Su  
QA & QC Manager