

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2024-03-22 15:57:13

Date of Next Testing: 2028-03-21 15:57:13

Product Name: **p-Toluenesulfonic acid monohydrate**

CAS Number: 6192-52-5

Specifications & Purity: AR, ≥98.5%

Lot #: C2412506

SKU #: **T104290**

Version: **2**

Analysis #: **324613**

Storage Temperature: Room temperature, Argon charged, Cool

| Parameter                                          | Limit Values                                            | Result                                                  |
|----------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Purity(Neutralization titration)<br>(after drying) | 98-102 (%)                                              | 100.83000 %                                             |
| Melting point                                      | 103-107 (°C)                                            | 103.13000 °C                                            |
| Purity(HPLC)                                       | 98.5-100 (%)                                            | 98.85700 %                                              |
| Water by Karl Fischer                              | 9.5-11.5 (%)                                            | 11.49140 %                                              |
| Appearance (T104290)                               | white to off-white powder, crystals, flakes<br>or chunk | white to off-white powder, crystals, flakes<br>or chunk |
| Solubility in H <sub>2</sub> O                     | Almost transparency                                     | almost transparency                                     |
| Proton NMR spectrum                                | Conforms to structure                                   | Conforms to Structure                                   |



John Su  
QA & QC Manager