

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-10-18 12:00:33
Date of Next Testing: 2026-10-17 12:00:33
Product Name: **p-Toluenesulfonic acid monohydrate**
CAS Number: 6192-52-5
Specifications & Purity: AR, ≥98.5%
Lot #: J2215167
SKU #: **T104290**
Version: **2**
Analysis #: **146385**
Storage Temperature: Room temperature, Argon charged, Cool

| Parameter | Limit Values | Result |
|--|---|---|
| Purity(Neutralization titration) (after drying) | 98-102 (%) | 100.00000 % |
| Water by Karl Fischer | 9.5-11.5 (%) | 11.45460 % |
| Melting point | 103-107 (°C) | 104.01000 °C |
| Purity(HPLC) | 98.5-100 (%) | 99.49300 % |
| Appearance (T104290) | white to off-white powder, crystals, flakes or chunk | white to off-white powder, crystals, flakes or chunk |
| Solubility in H ₂ O | Almost transparency | almost transparency |
| Proton NMR spectrum | Conforms to structure | Conforms to Structure |



John Su
QA & QC Manager