

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-06-15 15:09:21
 Date of Next Testing: 2027-06-14 15:09:21
 Product Name: **p-Toluenesulfonic acid monohydrate**
 CAS Number: 6192-52-5
 Specifications & Purity: $\geq 98\%$
 Lot #: F23101245
 SKU #: **T305333**
 Version: **1**
 Analysis #: **229336**
 Storage Temperature: Room temperature, Argon charged

Parameter	Limit Values	Result
Melting point	104-107 (°C)	105.76000 °C
Purity(HPLC)	98-100 (%)	99.83100 %
Water by Karl Fischer	8-12 (%)	11.19160 %
Purity(Neutralization titration) (anhydrous)	97.5-102.5 (%)	99.55000 %
Appearance (T305333Color)	White to almost white	White to almost white
Appearance (T305333Form)	Powder to crystal	Powder to crystal
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility in H2O	almost transparency	almost transparency



John Su
QA & QC Manager