

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2022-07-14 16:25:53  
 Date of Next Testing: 2026-07-13 16:25:53  
 Product Name: **p-Toluenesulfonic acid monohydrate**  
 CAS Number: 6192-52-5  
 Specifications & Purity: Analytical Reagent, ≥98.5%  
 Lot #: F2208002  
 SKU #: **T104290**  
**Analysis:** **080820**  
 Storage Temperature: Argon charged

Parameter	Limit Values	Result
Purity(Neutralization titration) (after drying)	98-102 (%)	100.00 %
Water by Karl Fischer	9.5-11.5 (%)	11.45 %
Purity(HPLC)	98.5-100 (%)	99.49300 %
Melting point	104-107 (°C)	104.01000 °C
Appearance (T104290)	white to off-white powder,crystals,flakes or chunk	white to off-white powder,crystals,flakes or chunk
Solubility in H2O	Almost transparency	almost transparency
Proton NMR spectrum	Conforms to structure	Conforms to Structure



John Su  
QA & QC Manager