

## Certificate of Analysis

Date of Testing: 2022-10-25 14:54:59  
Date of Next Testing: 2026-10-24 14:54:59  
Product Name: **p-Toluenesulfonic acid monohydrate**  
CAS Number: 6192-52-5  
Specifications & Purity: 98%  
Lot #: J2222553  
SKU #: **T305333**  
**Analysis:** **122537**  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Purity(Neutralization titration) (anhydrous)	97.5-102.5 (%)	98.47%
Water by Karl Fischer	8-12 (%)	11.32%
Melting point	104-107 (°C)	104.35000 °C
Purity(HPLC)	98-100 (%)	98.94700%
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 transparent	almost transparency



John Su  
QA & QC Manager