

## Certificate of Analysis

Date of Testing: 2022-08-30 16:07:13  
Date of Next Testing: 2026-08-29 16:07:13  
Product Name: **p-Toluenesulfonic acid monohydrate**  
CAS Number: 6192-52-5  
Specifications & Purity: ACS, ≥98.5%  
Lot #: H2219418  
SKU #: **T118454**  
**Analysis:** **122533**  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Heavy metal (as Pb)	0-0.001 (%)	0.00 %
Purity(HPLC)	98.5-100 (%)	99.76300 %
Water by Karl Fischer	9.5-11.5 (%)	11.45 %
Ignition Residue	0-0.1 (%)	0.00 %
Sodium(Na)	0-0.002 (%)	0.00 %
Sulfate(SO42-)	0-0.3 (%)	0.06 %
Melting point	103-106 (°C)	105.63000 °C
Iron(Fe)	0-0.01 (%)	0.00 %
Appearance (T118454)	White Powder or Crystals	White Powder or Crystals
Clarity of solution, 10g/50ml, Water	Clear	Clear



John Su  
QA & QC Manager