

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2024-12-30 10:29:38  
Date of Next Testing: 2028-12-29 10:29:38  
Product Name: **p-Toluenesulfonic acid monohydrate**  
CAS Number: 6192-52-5  
Specifications & Purity: AR, ≥98.5%  
Lot #: L2424480  
SKU #: **T104290**  
Version: **2**  
Analysis #: **449129**  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Water by Karl Fischer	9.5-11.5 (%)	10.84%
Purity(HPLC)	98.5-100 (%)	99.37600%
Melting point	103-107 (°C)	103.10000 °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