

## Certificate of Analysis

Date of Testing: 2024-12-26 19:06:39  
Date of Next Testing: 2027-12-26 19:06:39  
Product Name: **4-Toluenesulfonic acid**  
CAS Number: 104-15-4  
Specifications & Purity:  $\geq 98\%$   
Lot #: L2425450  
SKU #: **T684184**  
Version: **2**  
Analysis #: **454798**  
Storage Temperature: Room temperature

Parameter	Limit Values	Result
Purity(HPLC area)	98-100 (%)	99.94 %
Water by Karl Fischer	0-2 (%)	0.10 %
NMR Spectrum 1H	Conforms to Structure	Conforms to Structure
LC-MS for identification	Conforms	Conforms



John Su  
QA & QC Manager