

## Certificate of Analysis

Date of Testing: 2023-03-25 11:41:57  
Date of Next Testing: 2025-03-14 11:41:57  
Product Name: **Triphenylphosphine-3,3',3''-trisulfonic acid trisodium salt**  
CAS Number: 63995-70-0  
Specifications & Purity: 90%  
Lot #: C2313065  
SKU #: **T115579**  
**Analysis: 182343**  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Water by Karl Fischer	0-10 (%)	5.60 %
Purity(HPLC)	90-100 (%)	99.49700 %
Sulfur content (s/c-analysis)	16.07-17.76 (%)	16.88 %
Appearance (T115579)	white to beige powder or crystals	white to beige powder or crystals
31P NMR spectrum	Conforms to Structure	Conforms to Structure
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager