

## Certificate of Analysis

Date of Testing: 2024-03-20 10:11:33  
Date of Next Testing: 2026-03-10 10:11:33  
Product Name: **p-Toluenesulfonyl chloride(PTSC)**  
CAS Number: 98-59-9  
Specifications & Purity: Analytical Reagent,99%  
Lot #: C2408524  
SKU #: **T104623**  
**Analysis:** **325078**  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Purity(Titration by AgNO3)	99-101 (%)	100.36 %
Melting point	67-71 (°C)	69.70000 °C
Purity(GC)	99-100 (%)	99.03 %
Appearance (T104623)	White to Off-White Crystals, Powder or Granular	White to Off-White Crystals, Powder or Granular
Solubility in EtOH , Clear Colorless to Very Faint Yellow,10%	pass	Pass
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager