

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2024-05-31 15:44:52  
Date of Next Testing: 2026-05-31 15:44:52  
Product Name:  **$\alpha$ -Toluenesulfonyl Chloride**  
CAS Number: 1939-99-7  
Specifications & Purity: 97%  
Lot #: H2217144  
SKU #: A132945  
Version: 0  
Analysis #: 363336  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Purity (Argentmetric Titration)	96.5-103.5 (%)	103.00 %
Melting point	90-94 (°C)	93.50000 °C
Appearance (A132945)	White to Pale Pink to Yellow to Brown Powder,Crystals or Solid	White to Pale Pink to Yellow to Brown Powder,Crystals or Solid
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility in Toluene , very faint turbidity	pass	Pass



John Su  
QA & QC Manager