

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2022-12-15 11:59:50  
Date of Next Testing: 2024-12-04 11:59:50  
Product Name: **p-Toluoyl chloride**  
CAS Number: 874-60-2  
Specifications & Purity: 99%  
Lot #: A2122166  
SKU #: **T106376**  
**Analysis: 160539**  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Purity(GC)	99-100 (%)	99.57%
Density (20°C)	1.168-1.17	1.17
Refractive index n <sub>20</sub> /D	1.553-1.555	1.55
Appearance (T106376)	Colorless to Very Faint Yellow Liquid	Colorless to Very Faint Yellow Liquid
Proton NMR spectrum	Conforms to structure	Conforms to Structure



John Su  
QA & QC Manager