

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-11-02 13:42:52

Date of Next Testing: 2024-10-22 13:42:52

Product Name: **m-Toluoyl chloride**

CAS Number: 1711-06-4

Specifications & Purity: 99%

Lot #: J2231018

SKU #: **T101293**

Version: **0**

Analysis #: **116041**

Storage Temperature: Argon charged, Desiccated

Parameter	Limit Values	Result
Purity(GC)	99-100 (%)	99.44 %
Density (20°C)	1.171-1.174	1.17
Refractive index n _{20/D}	1.548-1.55	1.55
Appearance (T101293)	Colorless to light yellow liquid	Colorless to light yellow liquid
Proton NMR spectrum	Conforms to Structure	Conforms to Structure

A handwritten signature in black ink that reads "John Su".

John Su
QA & QC Manager