

## Certificate of Analysis

Date of Testing: 2023-01-05 17:30:49  
Date of Next Testing: 2027-01-04 17:30:49  
Product Name:  **$\alpha,\alpha,\alpha$ -Trichlorotoluene**  
CAS Number: 98-07-7  
Specifications & Purity: 99%  
Lot #: L2215839  
SKU #: T111457  
**Analysis:** 150577  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Refractive index n <sub>20</sub> /D	1.557-1.559	1.56
Purity(GC)	99-100 (%)	99.60%
Density (20°C)	1.374-1.379	1.37
Appearance (T111457)	Colorless to Yellow Liquid	Colorless to Yellow Liquid
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager