

## Certificate of Analysis

Date of Testing: 2023-06-08 17:21:03  
Date of Next Testing: 2025-06-07 17:21:03  
Product Name: **Tetrachlorophthalonitrile**  
CAS Number: 1953-99-7  
Specifications & Purity: 98%  
Lot #: A1824124  
SKU #: **T132947**  
Analysis: **238245**

Parameter	Limit Values	Result
Purity(O <sub>2</sub> AgNO <sub>3</sub> titration with after combustion)	97.5-102.5 (%)	99.92%
Purity(HPLC)	98-100 (%)	99.52100%
Melting point	249-253 (°C)	252.02000 °C
Appearance (T132947)	white to off-white powder, crystals and/or chunks	white to off-white powder, crystals and/or chunks
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager