

Certificate of Analysis

Date of Testing: 2024-11-15 15:00:57

Date of Next Testing: 2028-11-14 15:00:57

Product Name: **4-Thiazolecarboxylic acid**

CAS Number: 3973-08-8

Specifications & Purity: $\geq 97\%$

Lot #: K2412020

SKU #: **T119302**

Version: **1**

Analysis #: **107238**

Parameter	Limit Values	Result
Purity (Titration by NaOH)	96.5-103.5 (%)	99.30 %
Melting point	195-199 (°C)	196.22000 °C
Purity(HPLC)	97-100 (%)	99.62900 %
Appearance (T119302)	White to yellow powder or crystals	White to yellow powder or crystals
Infrared spectrum	Conforms to Structure	Conforms to Structure
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager