

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-05-13 14:29:10
 Date of Next Testing: 2027-05-12 14:29:10
 Product Name: **3-Thiophenemalonic acid**
 CAS Number: 21080-92-2
 Specifications & Purity: $\geq 98\%$
 Lot #: E2306980
 SKU #: **T124059**
 Version: **0**
 Analysis #: **223136**
 Storage Temperature: Room temperature

Parameter	Limit Values	Result
Purity(Neutralization titration)	97.5-102.5 (%)	98.80000 %
Purity(HPLC)	98-100 (%)	99.97700 %
Appearance (T124059)	White to Beige Powder, Crystals and/or Chunks	White to Beige Powder, Crystals and/or Chunks
Infrared spectrum	Conforms to Structure	Conforms to Structure
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility in H ₂ O , very faint turbidity	pass	Pass



John Su
QA & QC Manager