

## Certificate of Analysis

Date of Testing: 2023-05-31 17:15:32  
Date of Next Testing: 2027-05-30 17:15:32  
Product Name: **malonic acid**  
CAS Number: 141-82-2  
Specifications & Purity: reagent grade,98%  
Lot #: E2325895  
SKU #: **M103513**  
Analysis: **231450**

Parameter	Limit Values	Result
Purity (Titration by NaOH)	97.5-102.5 (%)	100.09 %
Purity(GC)	96-100 (%)	99.00 %
Appearance (M103513)	White Powder or Crystals or Granules or Chunks	White Powder or Crystals or Granules or Chunks
Infrared spectrum	Conforms to Structure	Conforms to Structure
Solubility in 1N NaOH , Colorless to yellow,clear to pass slightly hazy100mg/ml		Pass



John Su  
QA & QC Manager