



CERTIFICATE OF ANALYSIS

20 Martin Ross Avenue, North York, ON, M3J 2K8, CANADA
Tel: (416) 665-9696, Fax: (416) 665-4439
Email: orders.trc@lgcgroup.com Website: www.trc-canada.com

1. Identification

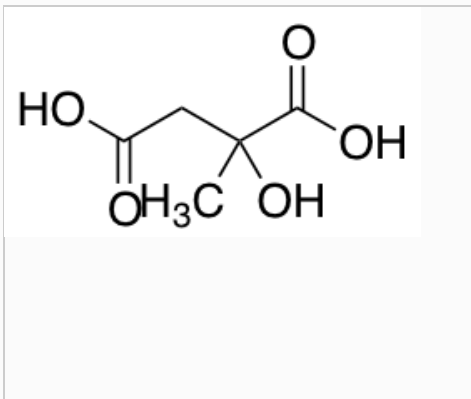
Catalogue Number: A240088

CAS Number: 2306-22-1

Product: DL-Citramalic Acid

Synonym:

Structure:



Molecular Formula:

C₅H₈O₅

Molecular weight:

148.11

Source of Product:

N/A

Solubility:

Acetone (Slightly), Chloroform (Slightly), Ethanol (Slightly), Methanol (Slightl

Lot Number: 20-ZEA-177-1

Purity: 98%

Shipping Condition: This Product Is Stable To Be Shipped At Room Temperature

Storage Condition: 20°C

2. Warning

Warning 1:

Warning 2:

Warning 3:

3. Analytical Information

Tests:	Specifications:	Results:
Elemental Analysis	Conforms	%C: 40.41, %H: 5.49
Appearance	Off-White to Pale Beige Solid	Off-White to Pale Beige Solid
MS	Conforms to Structure	Conforms
NMR	Conforms to Structure	Conforms
Specific Rotation	Report Result	-0.1° (c = 1.0, Water)
HPLC Purity	Report Result	99.94% (ELSD)

Additional Information: N/A

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of ± 2%. Isotopic purity is based on mass distribution observed. The contents of the specifications are subject to change without advance notice, and the specification values displayed here are the most up to date values.

4. Signatures

Reviewed By	Reviewed By	C of A Approved By	Test Date	Retest Date
Henry Tieu	Toni Rantanen	Chanell Chu	6/5/2021	6/3/2025