



## CERTIFICATE OF ANALYSIS

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### 1. Identification

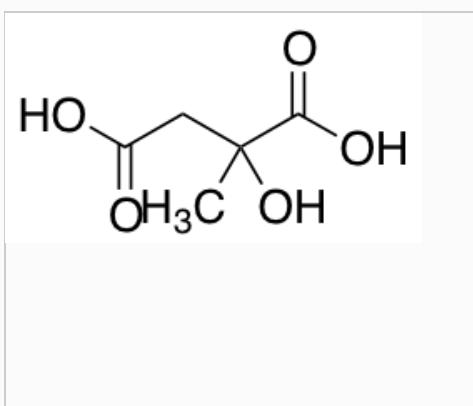
**Catalogue Number:** A240088

**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 (Slight)

**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

<b>Tests:</b>	<b>Specifications:</b>	<b>Results:</b>
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

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