

### Technical Information

#### L-(-)-Malic Acid Plant Culture Tested

**Product Code: PCT1502**

#### Product Information

Product Code	: PCT1502
Product Name	: L-(-)-Malic Acid, Plant Culture Tested
Synonym	: (S)-(-)-2-Hydroxysuccinic acid, L-Hydroxybutanedioic acid
Molecular Formula	: $C_4H_6O_5$
Molecular Weight	: 134.09
CAS No.	: 97-67-6

#### Technical Specification

Appearance	: White crystals or crystalline powder.
Solubility	: Soluble in water.
Culture response	: Cultures conditions - Incubation period (5wks), Relative humidity (60±2%), Temperature (25±2°C), Photoperiod Day: Night in hours (16:8)
Shoot culture	: No structural deformity observed, actively growing shoots, no toxicity to Shoots.
Callus culture	: No necrotic tissues, actively growing callus, no toxicity to callus.
Specific rotation(c = 8.5% in water)	: $-1.5^{\circ}$ to $-3^{\circ}$
Melting point	: 101 - 106°C
Assay (NaOH Titration)	: 96.5-103.5%

#### GHS Safety Information

Hazard Statement(s)	: H315-H319-H335
Precautionary Statement(s)	: P261-P305+P351+P338
Signal Word	: Warning
Hazard Pictogram(s)	

#### Risk And Safety Information

R-Phrase(s)	: 36/37/38
S-Phrase(s)	: 26-36
WGK	: 3
RTECS	: --
Storage Temperature(°C)	: Store below 30°C

#### Transport Information

Marine Pollutant	: No
ADR/RID	: Not Dangerous Goods
IMDG	: Not Dangerous Goods
IATA	: Not Dangerous Goods



Plant Culture  
Tested



## Product Specification

[cdhfinechemical.com](http://cdhfinechemical.com)

### Disclaimer :

- User must ensure suitability of the product(s) in their application prior to use.
- The product conforms solely to the technical information provided in this booklet and to the best of knowledge research and development work carried at **CDH** is true and accurate.
- **Central Drug House Pvt. Ltd.** reserves the right to make changes to specifications and information related to the products at any time.
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- Do not use the products if it fails to meet specifications for identity and performance parameters.