



*Specialized in chemicals*

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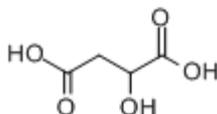
## Technical Data Sheet

# Malic acid

### Product Information

Chemical Name	Malic acid (DL Malic acid, L-Malic acid)
CAS #	617-48-1,97-67-6
Formula	C <sub>4</sub> H <sub>6</sub> O <sub>5</sub>
Molecular Weight	134.09
Synonyms	DL-Malic acid; DL-Hydroxysuccinic acid; DL-2-Hydroxybutanedioic acid; DL-Apple acidL(-)-Malic acid; L-Hydroxysuccinic acid; Apple acid

### Chemical Structure



### Description

Malic acid is a kind of food additives which is recognized internationally. It can be used as sour agents, preservatives and pH adjusting agent, it has stronger acidity than citric acid. It can be used for various types of food according to production needs. And it is widely used in soft drinks and ice cream.

### Physical Properties

Appearance:	White powder
Solubility in water:	2.14g/l
Boiling point:	286°C at 100mmHg
Melting point:	105--107°C

### Specificaton

TEST ITEM	SPECIFICATION	RESULT
Appearance	White crystal or crystal powder	White crystal or crystal powder
Assay	99.0% min	99.4%
Specific Rotation	[伪]25/D -0.10~ +0.10	[伪]25/D 0
Water-Insoluble Matter	0.1% max	0.06%
Residue on Ignition	0.1% max	0.06%
Heavy Metals (as PB)	10mg/kg max	Pass
Arsenic (as As)	2mg/kg max	Pass
Fumaric Acid	1.0% max	0.86%

### Safety

Malic acid is a common goods on transportation.  
Always refer to the Material Safety Data Sheet (MSDS)

### Applications

- (1) In food industry: it can be used in the processing and concoction of beverage, liqueur, fruit juice and the manufacture of candy and jam etc. It also has effects of bacteria inhibition and antiseptis and can remove tartrate during wine brewing.
- (2) In tobacco industry: malic acid derivative (such as esters) can improve the aroma of tobacco.
- (3) In pharmaceutical industry: the troches and syrup compounded with malic acid have fruit taste and can facilitate their absorption and diffusion in the body.
- (4) Daily chemical industry: as a good complexing agent, it can be used for toothpaste formula, spice synthesis formulas and so on. It also can be used as a deodorant and detergent ingredients. As a food additive, malic acid is an essential food ingredient in our food supply. As a leading food additives and food ingredients supplier in China, we can provide you with high quality malic acid

### Packaging

25kg /fiber drum or bag

### Storage & Handling

Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.  
Please refer to the Materials Safety Data Sheet (MSDS) for the handling methods.

Always refer to the Material Safety Data Sheet (MSDS) for detailed information on handling and disposal.

*The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchant ability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if we has been advised of the possibility of such damages.*

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