



Thirumalai

Product Data Sheet

DL-MALIC ACID - FOOD GRADE

Chemical Formula : C₄H₆O₅
 Molecular weight : 134.09
 CAS Registry Number : 6915-15-7
 E. Number : 296

(For Overseas Customers)

Reach Registration Number:
 01-2119552463-40-0000
 License under Food Safety and Standards
 Act, 2006 Number: 10012042000166
 U.S.FDA Registration Number:
 13392034936

Chemicals Ltd.

Data Sheet No: MAL 2311

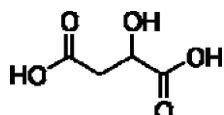
Issue date: 24 Nov 2024

Molecular Structure : **Grades of Granularity:**
 Granular:

Appearance: White Crystalline
 Granular / Fine Granular / Powder

Description: DL-Malic Acid is an important organic compound having a sharp, clean, tart, acidic taste. It is free flowing, stable and hygroscopic.

100% passing through



USS 10 mesh

10% max. passing through USS 50 mesh
Fine Granular:

99% Min. passing through USS 25 mesh
 5% Max. Passing through USS 100 mesh

Powder:

75% Min. passing through USS 50 mesh

SPECIFICATIONS (Conforms to FCC 13):

Characteristics	Unit	Guaranteed		Typical
		Min		
Assay on dry basis (Titrimetry)	Wt. %	Min	99.5	99.8
Infrared Absorption	The spectrum of the sample exhibits maxima at the same wavelengths as those in the spectrum of the reference standard.	Conforms		
Maleic acid	Wt. %	Max	0.05	0.03
Fumaric acid	Wt. %	Max	1.0	0.6
Residue on Ignition (sulfated Ash)	Wt. %	Max	0.10	0.02
Optical (Specific) Rotation	$[\alpha]_D^{25}$	Between	- 0.10 and + 0.10	- 0.10 and + 0.10
Lead (as Pb)	PPM	Max	2	<2
Water Insoluble Matter	Wt. %	Max	0.1	0.02

ADDITIONAL SPECIFICATIONS:

Characteristics	Unit	Guaranteed		Typical
Moisture (by Loss on drying)	Wt. %	Max	0.3	0.2
Heavy metals (as Pb)	PPM	Max	5	<5
Arsenic (as As)	PPM	Max	1	<1

Mercury (as Hg)	PPM	Max	1	<1
Cadmium (as Cd)	PPM	Max	1.5	<1

Note: On request.