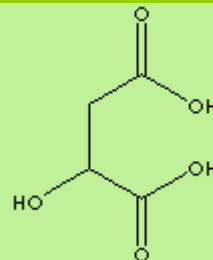


DL-MALIC ACID

PRODUCT IDENTIFICATION

CAS NO.	6915-15-7
EINECS NO.	
FORMULA	C ₄ H ₆ O ₅
MOL WT.	134.09
H.S. CODE	2918.19
TOXICITY	



SYNONYMS Hydroxybutanedioic acid; D-Apple Acid; Deoxytetraric Acid; 2-Hydroxybutanedioic Acid; Pomalus Acid;

RAW MATERIALS Hydration of Maleic Anhydride

CLASSIFICATION

PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE	White Crystal or powder
MELTING POINT	130 - 132 C
BOILING POINT	
SPECIFIC GRAVITY	1.601
SOLUBILITY IN WATER	125 g/100ml
pH	
VAPOR DENSITY	
FLASH POINT	

APPLICATIONS

Acidulant, Preservative, Food and Feed Additive, Metal cleaning and plating, Retardant in plasters and cements, Cosmetics, Pharma products and Textile industry.

SALES SPECIFICATION

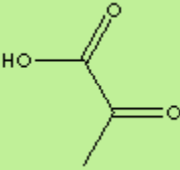
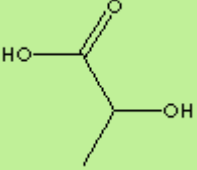
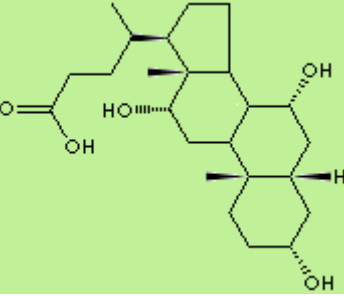
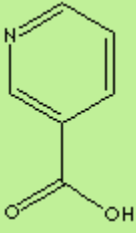
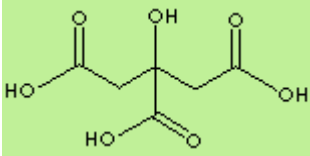
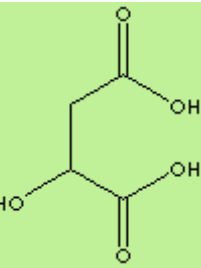
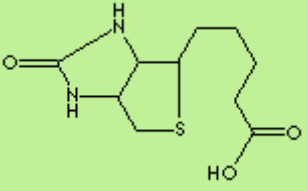
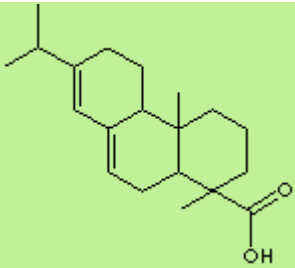
BIBLIOGRAPHY	FCC IV
APPEARANCE	White Crystal or powder
PURITY	99.0% min
MELTING POINT	130 - 132 C
MOISTURE	0.3% max
FUMARIC ACID	1.0% max
MALEIC ACID	0.05% max
WATER INSOLUBLES	0.05% max
ASH	0.02% max
IRON	10ppm max
ARSENIC	1ppm max
LEAD	1ppm max
HEAVY METALS	10ppm max
SUM COLIFORM BACTERIA	10 ufc/g
STREPTOCOCCUS	10 ufc/g
MOULDS AND YEAST	10 ufc/g
SALMONELLA	Absent
SIEVE ANALYSYS	Powder : 90% min (60 mesh) Granular : 100% (10 mesh), 10% max (50 mesh)

TRANSPORTATION

PACKING
HAZARD CLASS
UN NO.
REMARKS

25kgs, 500kgs, 1,000kgs in Bag

EXAMPLES OF NATURALLY OCCURRING CARBOXYLIC ACIDS
(excluding fatty acids)

Pyruvic acid	Lactic Acid	Cholic acid	Nicotinic acid
			
metabolic intermediate	metabolic intermediate	from bile	vitamin B
Citric acid	Malic Acid	Biotin	Abietic acid
			
in plants	in fruits	cell growth factor	pine rosin