



BARTEK Ingredients Inc.

A Taste for Today and Tomorrow

MALIC ACID REGULAR/ POWDER, NF/ PhEur GRADE

FORMULA: C₄H₆O₅
CAS Number: 6915-15-7
EINECS Number: 230-022-8
EC Number: 296

The product meets National Formulary (NF) and European Pharmacopoeia (PhEur) requirements.

DESCRIPTION: White or nearly white crystalline granular with a smooth tart taste.
Material is the DL - form of Malic Acid and optically inactive.

SPECIFICATIONS:

Identification by IR:	Positive for Malic Acid
Assay:	99.0 - 100.5%
Fumaric Acid:	1.00% max.
Maleic Acid:	0.05% max.
Heavy Metals:	10 ppm max.
Residue on Ignition:	0.10% max.
Water Insoluble Matter:	0.10% max.
Moisture:	0.30% max.
Organic Volatile Impurities:	ND
Melting Point:	128 - 132°C
Appearance of Solution:	Clear, Colourless
Optical Rotation:	Between -0.10° and +0.10°

PARTICLE SIZE:

POWDER		
Through 60 mesh (250 micron)		99% min.
REGULAR		
On 25 mesh (710 micron)		1.0% max.
Through 100 mesh (150 micron)		5.0% max.

PACKAGING: Multi-wall paper bag 25 kg (55 lbs)
Wooden pallet 40"(101.6cm) x 48"(121.9 cm)
Shrink-wrap

PRODUCTION POINT: Stoney Creek, Ontario, Canada

STORAGE: Clean, dry, ambient conditions.

SHELF LIFE: Two years from the date of production under recommended storage conditions.

Date Issued: November 5, 2009
Supersedes: September 16, 2008