

REV	DATED
0	August 23, 2023
1	April 5, 2024
2	June 5, 2024

## MALIC ACID REGULAR- FOOD GRADE

### MALIC ACID – FCC, EU 231/2012

**Formula:** C<sub>4</sub>H<sub>6</sub>O<sub>5</sub>  
**CAS Number:** 6915-15-7  
**EC Number:** 230-022-8  
**E Number:** E296  
**Molecular weight:** 134.09 g/mol

**DESCRIPTION:** White or nearly white crystals with a smooth tart taste.

#### **SPECIFICATION:**

Appearance: White or nearly white crystalline powder or granules  
Identification by IR: Positive for Malic Acid  
Identification (test for malate): Passes  
Assay: 99.0 – 100.5%  
Fumaric Acid: 1.0% max.  
Maleic Acid: 0.05% max.  
Arsenic: 3 mg/kg max.  
Lead: 2 mg/kg max.  
Mercury: 1 mg/kg max.  
Residue on Ignition (Sulfated Ash): 0.1% max.  
Water Insoluble Matter: 0.1% max.  
Melting Range: 127 – 132 °C  
Specific Rotation: -0.10° to + 0.10°

Particle Size: On a US #25 mesh screen (710 micron): 1.0% max.  
Through a US #100 mesh screen (150 micron): 5.0% max.

**PACKAGING:** Multi-wall paper bags and/or Super Sacks  
Wooden pallet  
Shrink-wrap

**PRODUCTION SITE:** Stoney Creek, Ontario, Canada

**STORAGE:** Clean, dry (<75% RH), ambient conditions.

**SHELF LIFE:** 24 Months from the date of production under recommended storage conditions.

**!!! NOT FOR PHARMACEUTICAL USE !!!**  
**Please contact Bartek Ingredients Inc. if USP/NF or Ph Eur grade is required**