

## **MALIC ACID COARSE, USP/NF and PhEur GRADE compliant**

**FORMULA:** C<sub>4</sub>H<sub>6</sub>O<sub>5</sub>  
**CAS Number:** 6915-15-7  
**EINECS Number:** 230-022-8  
**EC Number:** 296

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

### **SPECIFICATION:**

Identification by IR:	Positive for Malic Acid
Appearance of Solution:	Clear, Colourless
Melting Point:	128° – 132° C
Assay:	99.0 - 100.5%
Fumaric Acid:	1.0% max.
Maleic Acid:	0.05% max.
Heavy Metals:	20 ppm max.
Residue on Ignition:	0.1% max.
Water Insoluble Matter:	0.1% max.
Moisture:	2.0% max.
Optical Rotation:	-0.10° to +0.10°

### **Particle Size:**

On a US mesh screen #10 (2000 micron) – 0% max.  
Through a US mesh screen #50 (300 micron) – 10% 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.

Date Issued: May 13, 2019  
Supersedes: February 8, 2016