

REV	DATED
0	Oct 2, 2023
1	April 5, 2024
2	June 5, 2024

## **FUMARIC ACID REGULAR - FOOD GRADE**

### **FUMARIC ACID – FCC, EU 231/2012**

**Formula:** C<sub>4</sub>H<sub>4</sub>O<sub>4</sub>  
**CAS Number:** 110-17-8  
**EC Number:** 203-743-0  
**E Number:** E297  
**Molecular Weight:** 116.07 g/mol

**DESCRIPTION:** White crystalline powder or granules, odourless with tart taste

#### **SPECIFICATION:**

Appearance: Passes  
Identification  
- Identification by IR: Passes  
- Test for double bonds: Passes  
- Test for 1,2 dicarboxylic acid: Passes  
pH (0.05% solution at 25 °C): 3.0 – 3.2  
pH (1:30 aqueous solution): 2.0 – 2.5  
Melting Range: 286 – 302 °C  
Assay (Anhydrous): 99.5 – 100.5% min.  
Maleic Acid: 0.1% max.  
Water/Loss on Drying: 0.5% max.  
Residue on Ignition (Sulphated Ash): 0.1% max.  
Arsenic: 3 mg/kg max.  
Lead: 2 mg/kg max.  
Mercury: 1 mg/kg max.

Particle Size: On a US #20 mesh screen (850 micron): 1.0% max.  
Through a US #120 mesh screen (125 micron): 12.0% 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 grade is required**