Fumaric acid

Product Information

- **Chemical Name**: Fumaric acid
- **Synonyms**: TMEDA; Boletic acid; trans-butenedioic acid
- **CAS #**: 110-17-8
- **EINECS**: 203-743-0
- **Formula**: C4H4O4
- **Molecular Weight**: 116.07

Chemical Structure:

![Chemical Structure](image)

Physical Properties

- White powder or colorless crystals.
- Slightly soluble in water, ethyl ether, and acetic acid, soluble in ethanol. Almost insoluble in chloroform.

- **Density**: 1.62
- **Boiling Point**: 355.5°C at 760 mmHg
- **Melting Point**: 298-300°C
- **Flashing Point**: 230°C
- **Water solubility**: 0.63g/ml (25°C)

Specification

**Industrial Grade**

- **Appearance**: Near white crystal powder or crystalline grains powder
- **Assay**: 99.0 ~ 100.5%
- **Melting Point**: 286 ~ 302°C
Moisture ≤0.5%
Residue on Ignition ≤0.10%
Arsenic ≤0.0003%
Lead ≤0.001%
Color, APHA ≤50

Food Grade
Appearance White crystal powder or crystalline grains powder
Assay 99.5 ~ 100.5%
Melting Point 286.0 ~ 302.0℃
Maleic Acid ≤0.10%
Moisture ≤0.50%
Residue on Ignition ≤0.10%
Arsenic ≤3ppm
Lead ≤2ppm
Mercury ≤1ppm

Safety
Fumaric acid is a stable material, not dangerous on transportation.
Always refer to the Material Safety Data Sheet (MSDS)

Applications
1) Fumaric acid is used in the production of unsaturated polyester resin.
2) Fumaric acid is used for the production of antidotes DMSA in the pharmaceutical industry
3) Fumaric acid as a food additive - sour agent, used to cool and refreshing beverage, fruit, jelly, ice cream, etc., and mostly with citric acid use, fumaric acid and and sodium hydroxide reaction made of a single sodium salt, also used as a sour condiment
4) Fumaric acid is used as synthetic resin and mordant intermediate.

Packaging
25kg per PP woven bag ;
Total 18MT per 20ft container with pallets, 20MT without pallets

Storage & Handling
Store in a cool, well-ventilated place. Keep container tightly closed. Combustible materials should be stored away from extreme heat and away from strong oxidizing agents.
Please refer to the Materials Safety Data Sheet (MSDS) for the handling methods.
Always refer to the Material Safety Data Sheet (MSDS) for detailed information on handling and
disposal.

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchant ability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, however arising, even if we has been advised of the possibility of such damages.

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