



Specialized in chemicals

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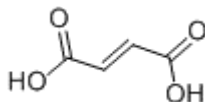
Site: www.tnjchem.com

Technical Data Sheet

Fumaric acid

Product Information

Chemical Name	Fumaric acid
Synonyms	TMEDA; Boletic acid; trans-butenedioic acid
CAS #	110-17-8
EINECS	203-743-0
Formula	C ₄ H ₄ O ₄
Molecular Weight	116.07
Chemical Structure	



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 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.

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