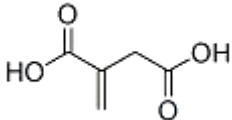


Technical Data Sheet

Basic information

Chemical name	Itaconic acid	Formula	C ₅ H ₆ O ₄
Synonyms	Methylenebutanedioic acid	Chemical structure	
CAS.No.	97-65-4		
EINECS No.	202-599-6		
Molecular weight	130.1		

Physical properties

Appearance	White crystal
Density, 25 °C, g/cm ³	1.573
Boiling point, °C	268
Melting point, °C	165-168
Flash point, °C	268
Solubility	Soluble in water, ethanol and acetone, slightly soluble in chloroform, benzene, and ethyl ether.

Specification

Items	Specification
Appearance	White crystal
Clarity (5% water solution)	Colorless and transparent
Color (5% water solution)	≤5
Melting point, °C	165.00 ~ 168.00
Sulphates, ppm	≤20
Chlorides, ppm	≤5
Heavy metals, ppm	≤5
Iron, ppm	≤5
As, ppm	≤4
Mn, ppm	≤1
Cu, ppm	≤1
Loss on drying, %	≤0.10
Residue on ignition, %	≤0.01
Assay, %	≥99.70
Particle size distribution, %	20 ~ 60mesh ≥80.00

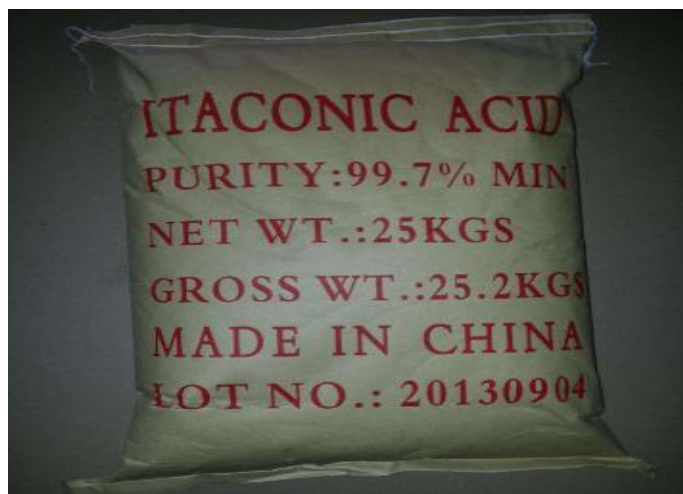
Application

- Itaconic acid and its polymers can be made into effective deodorant by adding a little natural substance, they can react with alkaline or acidic odor such as ammonium, amine, and hydrogen sulfide. They can also be utilized in paper and plastic thin film with deodorating function.

- Itaconic acid can copolymerize with styrene and butadiene to prepare S.B.R latex which is widely used in paper coatings, metal and concrete paint. It is used in paints to improve quality and used as fiber carpet sizing agent to make carpet more durable.
- Itaconic acid can react with acrylic and methacrylic acid or their esters to prepare resins which can be widely used in emulsion coating, leather coating, coatings for car, refrigerator and other electrical appliances to improve adhesion, color and weather resistance. They are also used in eletroporetical coating with excellent adhesion, in dental binder with the help of meta oxides. With chloroalkyl dimethyl benzylammonium chloride added, they can be used to prepare water soluble coating for food packaging to reduce bacteria contamination.
- Esters of itaconic acid can be used in paint, ion-exchange resin, lubricant, binder, plasticizer, sealant and molding plastics.
- Some other itaconic acid derivatives are used in medicine, cosmetics, lubricant, thickener, herbicide and wool modifier.

Package

- 25kg per paper-plastic compound bag, 20mt per 20'ft with pallets wrapped, 24mt per 20'ft without pallets.
- 500kg or 1000kg per bag, or as per customer's requirements.



Safety on transportation

It belongs to common goods, always refer to MSDS.

Storage and handling

Keep tightly closed, store in a cool dry place.

Please refer to the Materials Safety Data Sheet (MSDS) for the handling methods.

The information above is believed to be accurate and represents the best information currently available to us. However, In no event shall we be liable for any claims, losses, or damages of any third party resulting from its use.

Issue Date: 1st,12,2016