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Technical Data Sheet

Sorbic Acid

Product Information

Chemical Name	Sorbic acid
CAS #	110-44-1
Formula	C ₆ H ₈ O ₂
Molecular Weight	112.13
Synonyms	1,3-pentadiene-1-carboxylic acid; (2-butenylidene)acetic acid; 2-Propenylacrylic acid;

Description

White to yellowish-white crystalline powder, freely soluble in methanol,ethyl alcohol (approx.129g/L at 20 degease) and less soluble in water (approx.1.2g/L at 20 degease)

Physical Properties

Melting point, °C .	134.5°C
Boiling range, °C	228°C

Specification

Item	Specification
Appearance	White crystalline powder
Assay	99.0 ~ 101.0%
Moisture	≤0.5%
Heavy Metals	≤10ppm
Residue on ignition	≤0.2%
Melting point	132 ~ 135°C
Arsenic	≤2ppm

Lead	≤2ppm
Mercury	≤1ppm
Aldehydes	≤0.1%

Safety

Sorbic acid is one kind of nonsaturated fatty acid compounds. It can be absorbed by human body rapidly, then decomposed into CO₂ and H₂O, moreover no remaining in body.

ADI 0-25mg/kg (based on sorbic acid FAO/WHO 1994) LD₅₀ 4920mg/kg (large mouse by mouth)
GRAS (FDA, 182.3640 1994)

Its toxicity only 1/12 times table salts and 1/40 times sodium benzoate.

Applications

Sorbic acid has been used extensively in food, drink, vegetables in soy, tobacco, drugs, cosmetics, agricultural products, forage and other domain. Its application should be wide and wide in the world.

As acidic preservative, sorbic acid is also used well in neutral food (pH6.0-6.5). The preservative efficiency of sodium benzoate will decrease clearly and have a bad taste while PH>4.

Packaging

Package: 25kg/bag or 25 kg/drum or as per customer's requirements

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