

Sorbic Acid

Specification Sheet

Description: Sorbic acid (synonym: 2,4-hexadienoic acid) is a natural, straight-chained fatty acid. It is widely been used as a preservative in foods and cosmetics. For equal preservative power, only three parts of sorbic acid must be used to equal four parts of potassium sorbate. Purity >99% (FCC grade). Fine white to off-white, free-flowing powder. Barely soluble in water (about 1% at 20°C, and 4% at 90°C). Somewhat better soluble in plant oils and propylene glycol (1% at 20% and 10% at 90°C).

CAS: 110-44-1

INCI Name: Sorbic acid

Benefits:

- Has antimicrobial activity against molds, yeast and aerophile bacteria
- Effective in a wide pH range of 2.5-7.
- Kosher grade

Use: Typical concentration 0.05-0.3% (if used alone) or 0.05-0.15% (if used in combination with other preservatives). Under certain conditions, sorbic acid may oxidize and cause slight color changes in the cosmetic product. This can normally be prevented by adding 0.1-0.3% citric acid to the product. For external use only.

Applications: All kinds of cosmetic products like creams, lotions, shampoos, makeup & sunscreen products.

Country of Origin: USA

Raw material source: Crotonaldehyde and ketene

Manufacture: Synthetically produced by aldol condensation of acetaldehyde to form crotonaldehyde which is then reacted with ketene to form sorbic acid

Animal Testing: Not animal tested

GMO: GMO free (does not contain plant-derived components)

Vegan: Does not contain animal-derived components