

Vitamin C (L-ascorbic acid), USP

Specification Sheet

Description: Active form of vitamin C as it occurs naturally. 100% pure (USP/FCC grade). Particle size: $\geq 80\%$ through 325 mesh

CAS: 50-81-7

INCI Name: L-ascorbic acid

Composition: L-ascorbic acid

Purity Grade: USP grade

Appearance: White powder, ultrafine, odorless

Benefits:

- USP grade
- Potent antioxidant (shown to be able to protect skin from oxidative damages)
- Can improve appearance of aged and fragile skin
- Widely used as add-on ingredient in skin-lightening products to correct hyperpigmentation and age spots
- Antioxidant effect can be increased by combining L-ascorbic acid with L-ascorbyl palmitate and/or vitamin E

Use: Add to water phase of formula, usual final concentration 0.5-10 %. Tip: sprinkle vitamin C powder slowly to the water under constant stirring to assure that everything dissolves completely. Should be formulated at pH 4-5 for best results. For external use only.

Applications: Lotions, creams, sun care & after sun products, shampoos, makeup products (e.g. lipsticks).

Solubility: Soluble in water & alcohol

Preservation: Preservative-free

Storage: Store light-protected at a cool and dry place.

Country of Origin: China

Raw material source: Glucose (derived from corn or wheat starch)

Manufacture: L-ascorbic acid is produced synthetically in a multi-step process where D-glucose is hydrogenized to D-sorbitol and then oxidized to L-sorbose. Sorbose is then processed to 2-keto-L-gluconic acid and further to l-ascorbic acid through a fermentation process.

Animal Testing: Not animal tested

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

Vegan: Does not contain animal-derived components

HS Code: 2936270000