

## Vitamin C (L-ascorbic acid), USP

### Specification Sheet

**Description:** Active form of vitamin C as it occurs naturally. 100% pure (USP/FCC grade)

**CAS:** 50-81-7

**INCI Name:** L-ascorbic acid

**Composition:** L-ascorbic acid

**Purity Grade:** USP grade

**Appearance:** White powder, ultrafine, odorless

**pH Value:** 2.1-2.6 (5% solution)

**Benefits:**

- USP/FCC 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

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**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