



# Technical Data Sheet

## ETHYL ASCORBIC ACID

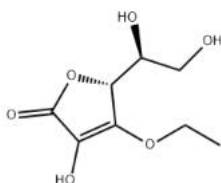
VCE ( ETHYL ASCORBIC ACID ) is the best currently-known derivative of vitamin C. It has very stable chemical properties. It can be metabolized in the same way as vitamin C in human body after entering skin, which enables it to play a better effect of Vitamin C. More importantly, VCE can permeate the Stratum Corneum and reach the Stratum Basale to produce more biological effects. VCE has been one of the best materials for whitening cosmetics.

**INCI Name:** 3-O-Ethyl Ascorbic Acid

CA No.: 86404-04-8

MW: 204.18

MF: C<sub>8</sub>H<sub>12</sub>O<sub>6</sub>



### Function:

Inhibits the activity of Tyrosinase, prevents the formation of Melanin;

Resists inflammation caused by sunburn;

Improves skin's complexion, promotes the synthesis of collagen, enhances skin's elasticity.

### Application:

Whitening agent, antioxidant agent, anti-ageing agent, anti-inflammatory agent. Suitable to lotion, gel, essence and emulsion, etc.. The suggested pH is between 3.0-6.0.

### Specification:

Item	Standards
Appearance	White crystalline powder
Melting point	110-115°C
pH (3% water)	3.5 - 5.5
Loss on drying	≤ 0.5%
Residue on ignition	≤ 0.2%
Heavy metals	≤ 10ppm
Free of VC	≤ 10ppm
Purity	≥ 99.0%

**Usage:** 0.1~3.0%. Applicable to whitening products and anti-wrinkle/anti-ageing products.

**Adding method:** Evenly dissolved in deionized water at about 50°C.

**Package:** 1.0kg/aluminum foil bag, 10 aluminum foil bags/carton or 10-25kg/drum.

**Storage:** Stored in sealed receptacles at room temperature, away from the light and moisture, two-year validity.