

Chemaxcel Corporation

Technical Data Sheet

Ascorbyl Glucoside

Ascorbyl Glucoside is produced from Vitamin C and Cyclodextrin by bio methods applying natural enzymes, which results in binding glucose to hydroxyl group of the reactive carbon of ascorbic acid. It is highly stable in solution at high temperatures and in the presence of metal ions, stable at pH 5-7.

Brand Name: Maxcel AG

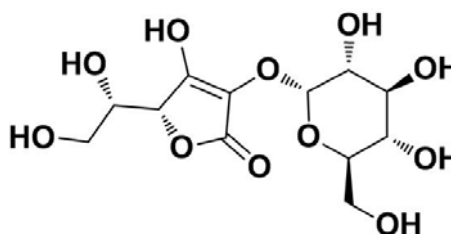
INCI Name: Ascorbyl Glucoside

Molecular Formula: $C_{12}H_{18}O_{11}$

Molecular Weight: 338.3

CAS No.: 129499-78-1

Specifications:



Appearance: white crystalline powder

Loss on drying: $\leq 1.0\%$

Residue on ignition: $\leq 0.2\%$

Melting point: $158^{\circ}\text{C} \sim 163^{\circ}\text{C}$ degrees Celsius

Optical rotation: $+186.0^{\circ} \sim +188.0^{\circ}$

Heavy metal (as Pb): $\leq 10\text{ppm}$

Free ascorbic acid: $\leq 0.1\%$

Free glucose: $\leq 0.1\%$

Arsenic (As_2O_3): $\leq 1\text{ppm}$

Particle size: up to Maxcel Standard

Assay: $\geq 98.0\%$

Packing: in aluminum bag of 1kg net each or in cardboard drum with inner PE bag containing 25kg net

Storage: keep away from light and moisture, to be stored in cool and dry place at room temperature.

Shelf life: 24 months from the date of manufacture, in the original unopened container under the suggested storage conditions.

Application: Ascorbyl Glucoside is used as an excellent antioxidant. When applied on the skin, it breaks down into L-Ascorbic Acid (pure Vitamin C) which has powerful antioxidant properties and inhibits the synthesis of melanin. It can dramatically reduce the free radicals that result from UV irradiation of skin and significantly reduce cell damage and photo-aging.

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