TECHNICAL DATA SHEET

Product Name: Ascorbyl Glucoside

Synonyms: AA2G; Ascorbic acid 2-glucoside; 2-O-α-D-Glucopyranosyl-L-ascorbic acid

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

CAS No.: 129499-78-1

Molecular Weight: 338.26 g/mol

Product Description

Ascorbyl Glucoside (AA2G) is a stable glycosylated derivative of L-ascorbic acid (Vitamin C). The glucose moiety protects the ascorbic acid structure against oxidation. Upon skin absorption, it slowly releases active vitamin C. It is widely used as a high-performance whitening and antioxidant raw material for cosmetics.

Specification

Item	Specification
Appearance	White to off-white powder
Assay	≥99.0%
Free Ascorbic Acid	≤0.1%
Free Glucose	≤0.1%
Sucrose	≤0.1%
Fructose	≤0.1%
Clarity (5% aqueous solution)	Solution should be clear
pH (1% aqueous solution)	2.0–2.5
Loss on Drying	≤0.5%

Applications

- Cosmetic raw material: Antioxidant, brightening, anti-pigmentation ingredient for serums, creams, lotions and toners
- Skincare formulations for anti-oxidation and skin brightening
- Personal care products

Packaging and Storage

- **Packaging:**
  25 kg kraft paper bags with PE liner
  OEM packaging available

- **Storage:**
  Store in a dry, cool and ventilated place. Keep away from moisture, strong light and high temperature. Keep sealed.

- **Shelf Life:**
  24 months from production date under proper storage