TECHNICAL DATA SHEET

Ascorbyl Glucoside (AA2G) · Vitamin C Glucoside

CAS No.	Batch No.	Packing	Quantity
129499-78-1	260328A	25 kg / drum	530 kg

1 Product Description

Ascorbyl Glucoside (AA2G) is a stable, water-soluble derivative of L-Ascorbic Acid (Vitamin C), produced by enzymatic glucosylation. It delivers the antioxidant benefits of Vitamin C while offering superior stability. This product appears as a white to off-white powder and is widely used as an active ingredient in cosmetic and personal-care formulations.

2 Chemical & Physical Properties

Property	Value
Product Name	Ascorbyl Glucoside (AA2G)
CAS Number	129499-78-1
Appearance	White to off-white powder
Solubility	Water-soluble
Clarity (5% aq. sol.)	Clear
pH (1% aqueous solution)	2.0 – 2.5

3 Specifications *Test basis: Enterprise Standard · Batch 260328A*

Item	Specification	Analysis Result	Conclusion
Appearance	White to off-white powder	White powder	**Conforms**
Assay	≥99.0%	99.7%	**Conforms**
Free Ascorbic Acid	≤0.1%	0.02%	**Conforms**
Free Glucose	≤0.1%	<0.1%	**Conforms**
Sucrose	≤0.1%	Not detected	**Conforms**
Fructose	≤0.1%	Not detected	**Conforms**
Clarity (5% aqueous sol.)	Solution should be clear	Clear	**Conforms**
pH (1% aqueous solution)	2.0 – 2.5	2.3	**Conforms**
Loss on Drying	≤0.5%	0.04%	**Conforms**

4 Applications

- Skin-care actives: whitening / brightening serums, creams, essences and ampoules
- Anti-aging and antioxidant formulations
- Sunscreen and after-sun care products
- Oral-care formulations

5 Advantages

- High stability: significantly more resistant to oxidation and discoloration than native Vitamin C
- Controlled release: slowly converts to active Vitamin C in the skin for sustained efficacy
- Skin-friendly: gentler and more compatible in neutral-pH formulations
- Water-soluble and easy to formulate across multiple product types

6 Packaging & Storage

Packaging: 25 kg per drum. Production date: 2026.03.28. Shelf life / Expiry: valid until 2028.03.27.

Storage: Keep container tightly closed in a cool, dry, well-ventilated place, away from direct sunlight and moisture.

7 Regulatory Status

This product is supplied as a cosmetic active raw material. Regulatory classification may vary by country and application; buyers should verify the applicable compliance requirements (e.g., cosmetic ingredient registration or food-additive status) in their target market before use.