



Specification

Calcium Ascorbate Powder

CAS Number: 5743-28-2
Molecular Formula: $C_{12}H_{14}O_{12}Ca \cdot 2H_2O$
Molecular Weight: 426.35
Storage: 15°C - 30°C
Retest Period: Two years after date of manufacture.

Test	Specification
Appearance	White to off-white crystalline powder
Solubility	Soluble in water, slightly soluble in ethanol, insoluble in ether
Stability	Fair stable in air if protected from humidity, but is slightly sensitive to heat; it is less susceptible to discoloration than ascorbic acid
Identification	Positive
Particle Size	20 ~ 60 Mesh
Clarity/Color of Solution	≤ BY6, Clear solution
Loss on Drying	≤ 0.1%
Residue on Ignition	30.0% ~ 33.0%
Oxalic Acid	≤ 0.3%
pH	6.8 ~ 7.4
Specific Gravity	+95.0° ~ +97.0°
Assay	98.0% ~ 100.5%
Residual Solvents (Methanol)	≤ 3000ppm
Heavy Metals	≤ 10ppm
Arsenic	≤ 3ppm
Cadmium	≤ 1ppm
Mercury	≤ 1ppm
Lead	≤ 2ppm
Iron	≤ 2ppm
Copper	≤ 5ppm
Fluoride	≤ 10ppm
Nickel	≤ 1ppm
Total Aerobic Plate Count	≤ 1000 cfu/g
Total Yeast and Mold	≤ 100 cfu/g
Coliforms	≤ 10 cfu/g
Escherichia coli, absent in 1g	Negative
Salmonella spp., absent in 25g	Negative
Staph. Aureus	Negative

For research or further manufacturing. Not for drug, clinical or a food use in humans or animals.



Gojira Fine Chemicals, LLC

Quality Products & Services Meeting Customer Needs
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Approved:

Date: May 12, 2020

A handwritten signature in blue ink that reads "John Grubb". The signature is fluid and cursive, with the first letters of the first and last names being capitalized and prominent.

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