

SPECIFICATION OF
CALCIUM ASCORBATE 97% GRANULATION

Description

Calcium Ascorbate 97% Granulation consists of Calcium Ascorbate granulated with hydroxyl propyl methyl cellulose. It is a white to pale yellow powder .

Product identification

Chemical names:

Calcium di{(R)-2-[(S)-1,2-dihydroxyethyl]-4-hydroxy-5-oxo-2H-furan-3-olate} dehydrate.

Synonyms: calcium ascorbate dihydrate; calcium L-ascorbate; ascorbic acid (calcium salt); vitamin C (calcium salt)

CAS No.: 5743-28-2 (as dihydrate)

Einecs No: 227-261-5

E No: E 302

Empirical formula: $C_{12}H_{14}CaO_{12} \cdot 2H_2O$

Molecular mass: 426.35 g/mol

Specifications

Appearance: White or Yellowish Fine Granular Powder

Identity: corresponds

Odor: odorless or almost odorless

Loss on drying: max. 0.5%

Heavy metals: max. 10 ppm

Arsenic: max. 3 ppm

Assay: 96.0-98.0% (method :Titration)

Total plate count: ≤ 1000 CFU/g

Total molds yeasts: ≤ 100 CFU/g

Coliform organisms: Negative

Salmonella: Negative

Solubility

Calcium Ascorbate easily dissolves in water, hardly dissolves in ethanol and is insoluble in chloroform .

Stability and storage

Calcium Ascorbate 97% Granulation is fairly stable to air if protected from humidity, but is slightly sensitive to heat. It is less susceptible to discoloration than ascorbic acid. Calcium ascorbate is suitable for use in dry preparations only, because its solutions have a tendency to form precipitates of calcium oxalate. The product may be stored for 24 months from the date of manufacture in the unopened original container and at room

EAST CHEMSOURCES LIMITED
No.666 Haibin 12th Road, Huangdao, Qingdao,China

temperature below 25°C. On prolonged storage, a slight yellow discoloration may occur which, however, does not affect the biological activity.

Uses

Especially suited for direct compression of tablets.

Compendial compliance

Calcium Ascorbate meets all requirements of the FCC. and USP. when tested according to these compendia.

Safety

This product is safe for the intended use. Avoid ingestion, inhalation of dust or direct contact by applying suitable protective measures and personal hygiene. For full safety information and necessary precautions, please refer to the respective Material Safety Data Sheet.