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Vitamin C Powder CAS 50-81-7 L-Ascorbic Acid

Ascorbic acid is a white or slightly yellow crystals or powder, a little acid. m.p. 190°C-192°C, easily soluble in water, a little soluble in alcohol and uneasily soluble in Ether and chloroform and other organic solvent. In solid state it is stable in air. Its water solution is easily mutated when it meets with air.

Ascorbic acid, or vitamin C, a water-soluble dietary supplement. Vitamin C is not only an important nutrient but is also used as an antioxidant in various foods. However, it is not soluble in fat and is unstable under basic conditions. The name ascorbic means antiscorvy and denotes the ability of ascorbic to combat this disease.

FUNCTIONS:

Vitamin C is widely used in many fields such as food, beverage, breeding and forage additives. Its main functions reflected in following 5 aspects:

- 1) Keep food, fruits and beverage fresh and prevent them from producing unpleasant smell.
- 2) Prevent formation of nitrous amine from nitrous acid in meat products.
- 3) Improve dough quality and make baked food expand to its maximum.
- 4) Compensate the Vitamin C losses of beverage, fruits and vegetables during processing procedures.
- 5) Used as nutritional element in additives, Feed additives.

Analysis Contents	Analysis Standard	Analysis Results
Characteristics	White or almost White crystals Crystalline Powder	Pass
Identification	Positive Reaction	Positive
Melting Point	About 190°C	191.2°C
PH	2.1-2.6	2.43
Clarity Of Solution	Clear	Clear
Colour Of Solution	≤BY7	<BY7
Copper	≤5ppm	<5ppm
Heavy Metals	≤10ppm	<10ppm
Mercury	<0.1mg/kg	<0.1mg/kg
Lead	<2mg/kg	<2mg/kg
Arsenic	≤3ppm	<3ppm
Cadmium(Cd)	<1mg/kg	<1mg/kg
Oxalic Acid	≤0.2%	<0.2%
Iron	≤2ppm	<2ppm
Loss of Drying	≤0.4%	<0.4%
Sulphate Ash(Residue On Ignition)	≤0.1%	<0.1%
Specific Optical Rotation	+20.5°-+21.5°	+21.15°
Mesh	40-80 Mesh	Pass
Residual Solvents	Pass	Pass
Assay	99.0%-100.5%	99.92%
Conclusion	The Above-Mentioned Product Conforms To BP2012/USP36/FCCVII/E300	