



Specialized in chemicals

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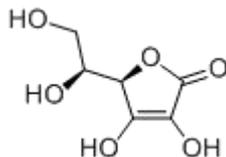
Technical Data Sheet

L-Ascorbic acid(Vitamin C)

Product Information

Chemical Name L-Ascorbic acid(Vitamin C)
CAS # 50-81-7
Formula C₆H₈O₆
Synonyms Vitamin C

Chemical Structure



Description

White or slightly yellowish crystalline or crystalline powder, no odor, has a sour taste. Melting point 190 ~ 192 degrees Celsius, optical rotation of a D₂₀=+21 degrees to +22 degrees. Soluble in water, soluble in ethanol, insoluble in chloroform, ether and benzene. 5% water solution Ph value is 2.2 ~ 2.5. In dry air is relatively stable, its aqueous solution is not stable, especially in neutral or alkaline solution is soon to be oxidized, the light, heat and copper, iron and other metal ions will accelerate oxidation.

Specificaton

| Items | Specification | Testing Results |
|------------|--------------------------------|-----------------|
| Appearance | White or almost White crystals | Confirms |

| | Crystalline Powder | |
|-----------------------------------|-----------------------------|-----------|
| Identification | Positive Reaction | Positive |
| Melting Point | About 190°C | 191.4°C |
| Clarity Of Solution | Clear | Clear |
| Colour of Solution | ≤BY7 | <BY7 |
| PH | 2.1~2.6 | 2.40 |
| 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% | <0.1% |
| Sulphate Ash(Residue On Ignition) | ≤0.1% | <0.1% |
| Specific Optical Rotation | +20.5° ~+21.5° | +20.90° |
| Organic Volatile Impurities | Pass | Pass |
| Assay | 99.0% ~100.5% | 99.75% |
| Standard | Up to BP2010/EP6/USP32/FCCV | |

Application

- 1)As an antioxidant, can be used for fermentation products, the maximum use of 0.2g/kg;
also can be used for beer, the maximum use of 0.04g/h. Also can be used for food nutrition fortifier.
- 2)Water soluble antioxidant;
- 3)Vitamin medicine, for the prevention and treatment of scurvy, is also used for the auxiliary effect of various acute and chronic infectious diseases and purpura etc.
- 4)Vitamin drugs. Participate in the oxidation reduction process, reduce capillary fragility, increase the body resistance. Used for vitamin C deficiency, fever, chronic wasting disease, etc.
- 5)Synthetic medicinal vitamin C is identical to that of natural vitamin C. The product can promote folic acid into tetrahydrofolate in favor of nucleic acid synthesis, promote the formation of red blood cells. Can also make the ferric ion reduction of two iron ions, which is easy to be absorbed by the body, but also beneficial to the generation of cells. Vitamin C in the body to participate in the formation of collagen. With neutralizing toxins, promote the generation of antibodies, can enhance the body's detoxification function. In medicine is mainly used for the prevention or treatment of scurvy, and for ascorbic acid deficiency

caused by dental caries, gingival abscess, anemia, growth developmental arrest and other diseases.

Packaging

25kgs per carton

1*20" load 20mt with pallets

1*20"load 22mt without pallets

Storage

Keep container tightly closed. Keep container in a cool, well-ventilated area. Air Sensitive Sensitive to light.

Store in lightresistant containers.

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