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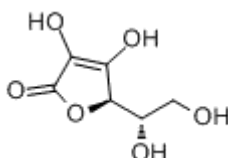
## Technical Data Sheet

VC

### Product Information

Chemical Name Ascorbic acid  
CAS # 50-81-7  
Formula C<sub>6</sub>H<sub>8</sub>O<sub>6</sub>  
Molecular Weight 176.12  
Synonym L(+)-Ascorbic acid;  
L-Ascorbic acid;  
Vitamin C;VC  
L-Threo-2,3,4,5,6-pentahydroxy-1-hexenoic acid-4-lactone;

Chemical Structure



### Physical Properties

Melting point, °C . 190 - 192 °C  
Density @ 20°C, g/cm<sup>3</sup> 1.954  
Solubility 333 g/L (20 °C)  
Specific rotation +20.5° - +21.5°

### Specification

Test Item	BP2008/USP31/E300/FCCV	Test Result
Characters	White or almost white Crystals Crystalline powder	pass
Identification	Positive reaction	Positive
Melting point	About 190°C	191.0°C
PH	2.1---2.6	2.41
Clarity of solution	Clear	Clear

Colour of solution	≤BY7	LESSBY7
Copper	≤5ppm	LESS5ppm
Heavy metals	≤10ppm	LESS10ppm
Mercury	NOT MORE THAN 0.1mg/kg	LESS0.1mg/kg
Lead	NOT MORE THAN 2mg/kg	LESS2mg/kg
Arsenic	≤3ppm	LESS3mg/kg
Cadmium (CD)	NOT MORE THAN 1mg/kg	LESS1mg/kg
Oxalic acid	≤0.2%	LESS0.2%
Iron	≤2ppm	LESS 2ppm
Loss of drying	≤0.4%	LESS0.1%
Sulphate ash (residue on ignition)	≤0.1%	LESS0.1%
Specific optical rotation	+20.5°----+21.5°	+20.85°
Mesh	40-80mesh	pass
Organic volatile impurities	Pass	Pass
Assay	99.0%---100.5%	99.56%

## Safety

Always refer to the Material Safety Data Sheet (MSDS) for detailed information on safety

## Applications

Vitamin C is widely used in many fields such as food , beverage, breeding and forage additives. Its main functions reflected in following 6 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.

## Packaging

25kg carton  
18mt per 20ft container

## Storage & Handling

**Vitamin C can be stored at room temperature (max.25°C) in the unopened original containers for at least 3 years. The storage temperature should be kept below 25 25°C**

Always refer to the Material Safety Data Sheet (MSDS) for detailed information on handling and disposal.

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