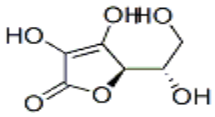
MASTERCHEM LIMITED

Coated Ascorbic acid 97%

CAS No.: 50-81-7 **Molecular Weight: 176.13**

Molecular Formula: $C_6H_8O_6$ **Structural Formula:**



Application:

The melting point of Vitamin C is 190-192ºC, the Alpha is 20.5 º (c=10,H2O) and the water solubility is 333 g/L (20 ºC).

Vitamin C behaves as a vinylogous carboxylic acid where the electrons in the double bond (vinyl), hydroxyl group lone pair and the carbonyl double bond form a conjugated system. Because the two major resonance structures stabilize the deprotonated conjugate base of Vitamin C, the hydroxyl group in Vitamin C is much more acidic than typical hydroxyl groups. In other words, Vitamin C can be considered an enol where the deprotonated form is an enolate, which is usually strongly basic.

Specification:

Item	Index
Characteristics	White crystalline powder
Identification	Positive reaction
Melting Point	About 190℃
PH	2.1-2.6
Clarity Of Solution	Clear
Mercury	≤0.1ppm
Zinc	≤25ppm
Arsenic	≤3ppm
Lead	≤2ppm
Loss on Drying	≤0.1%
Colour of Solution	≤BY7
Copper	≤5ppm
Heavy Metals	≤10ppm
Iron	≤2ppm
Oxalic Acid	≤0.2 %
Sulphate Ash (Residue On Ignition)	≤0.1%
Specific Optical Rotation	+20.5°- +21.5°
Assay	99.0-100.5%
Organic Volatile Impurities	Pass

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Usage:

Vitamin C takes part in a variety of metabolic processes in human body and helps in inducing the fragility of capillary vessel, and improving the resistibility to illness.

Packing and Storage:

Vitamin C is packed in 25KG net weight carton lined with PE bags(marks can be designed by customers). Store Vitamin C in cool, dry and well closed place. The shelf life of Vitamin C is 2 years in original packages under the described conditions.

Keyword:

Vitamin C; L-Threo-2,3,4,5,6-Pentahydroxy-1-Hexenoic Acid-4-Lactone

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