

Product Specification



Product Title ASCORBIC ACID 25KG SACK

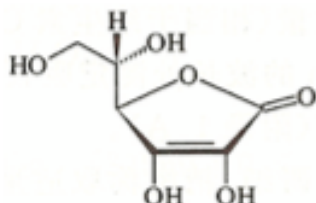
Product Code OC30132

1 General Description

Chemical name: L-2,3,5,6-tetrahydroxy-2-olefine acid- γ -lactone

Molecular formula: $C_6H_8O_6$

Structural formula:



Relative molecular mass: 176.12 (according to international relative atomic mass in 2007)

2 Physical and chemical Index:

The product is a white or light yellow crystalline or crystal powder; Odorless, acidity. The melting range is about 190 °C. When placed in the sunlight, its color will go dark. The property of dry product are quite stable when placed in the air, but its solution in the air will deteriorate promptly. 1 g of Vitamin C can dissolve in 3 ml water, 30 ml Ethanol. It is insoluble in the ethyl ether, chloroform and benzene.

Items 项目	Standard 标准
Appearance 性状	White crystalline powder 白色结晶性粉末
Identification 鉴别	Positive 正反应
Clarity of solution 溶液澄清度	Clear
Color of solution 溶液颜色	$\leq BY_7$
Assay 含量	99.0~100.5%
Loss on Drying 干燥失重	$\leq 0.4\%$
Residue on ignition 炽灼残渣	$\leq 0.1\%$
Sulphate Ash 灰分	$\leq 0.1\%$
Specific rotation 比旋度	+20.5°~ +21.5°
pH(with 2% water solution) PH(2%溶液)	2.4-2.8
PH(with 5% water solution) PH(5%溶液)	2.1-2.6

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Melting range 熔点	About 190°C
Heavy metals 重金属	≤3ppm
Iron 铁	≤2ppm
Copper 铜	≤2ppm
Oxalic acid 草酸	≤0.2%
Arsenic 砷	≤1ppm
Lead 铅	≤2ppm
Cadmium 镉	≤1ppm
Mercury 汞	≤1ppm
Residual solvents 残留溶剂	Methanol ≤3000ppm
Organic volatile impurities 有机挥发性杂质	Meets the requirements
Related Substances 相关物质	Impurity C ≤0.15% Impurity D ≤0.15% Any Other Unspecific Impurities Impurity ≤0.10% Total Impurity ≤0.2%
Particle Size	About 75% between 40-80 mesh
Tapped density 紧实密度	>0.9g/ml
Bulk density 松散密度	>0.8g/ml
Shelf life 有效期	3 years
Total Plate Count 菌落总数	≤1,000cfu/g
Package 包装	25kg cartons
According to BP2016/USP37/FCC9/EP8/E300	

3 Application

The Vitamin C made by TIANLI is produced by biological fermentation and chemical synthesis method using Sorbitol. The synthesized Vitamin C is completely the same with the natural Vitamin C because of the bacteria fermentation. Both have the Dextral rotatory.

Vitamin C is the advanced antioxidant for human body. It is used in reducing the oxidation stress of Ascorbic acid peroxidase base. Vitamin C also plays an important role in many biological synthesis process.

The functions Vitamin C played in each organs:

- It can assist to bite the bacteria, viruses and toxins in the white blood cell and to maintain the immune system.
- To produce the adrenaline in the adrenal to deal with crisis.
- To keep the lens's transparent in the lens in order to prevent cataract and glaucoma.
- To keep the thought and control muscle under good condition in the brain and nervous system.

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- To update the skin in the epidermis.
- To keep the sperm's motivation ability in the testicular.
- To eliminate organic and inorganic toxins in the liver.
- To prevent the viral pneumonia's infection in the lung.

Suggested Daily Intake of Vitamin C

- The U.K.Food Standards Agency suggests : 40mg each day
- World Health Organization: 45mg each day
- U.S. National academy of science:60-90mg each day
- U.S. Officials announced that 25years old men should eat 2.000mg at most each day.

4 label,,packaging,transportation and storage conditions

{ 1 } The label must stick on the cartons firmly,And the content of label should include:product name,batch number,date of manufacture, net weight, trade mark, manufacturer and storage condition.

{ 2 } This product should be packed in the cardboard drums or boxes with two layers Polyethylene with a drum of 25kg or 50kg according to the customer request.

{ 3 } This product should not be mixed or transported together with poisonous ,harmful or other polluted article and oxidizing substances.

{ 4 } This product should be stored in dark and dry place to prevent heat and become damp.

{ 5 } This product should be packaged according to the package terms and should be used as soon as possible after opening to prevent going bad.

Customer Approval of Specification

Please sign and return this specification to **technical@scobie-junor.co.uk** to confirm formal acceptance of this specification. All specifications issued will be deemed to be accepted if no communication to the contrary is received after 10 working days.

Signature:

Print name:

Position:

Date:

Issued by Scobie & Junor (Estd. 1919) Ltd. Certified accurate on 22/07/2021 11:44:10

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