

# FULUORUI<sup>®</sup> Ascorbic Acid

## Vitamin C

### Product Description

Ascorbic Acid is a white or slightly yellow crystals or powder, a little acid with the m.p. of 190°C -192°C. It is 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.

### Applications

- In the food industry, it can both use as nutritional supplements, supplementary VC in food processing, and also is good antioxidants in food preservation, which is widely used in meat products, fermented flour products, beer, tea, fruit juice, canned fruit, canned meat and so on; it is also commonly used in cosmetics, feed additives.
- In concrete industry, Vitamin C can be used as reducing agent in the synthesis of polycarboxylic superplasticizer.
- In the field of medicine, vitamin C can be directly used as medicine to treat some diseases.

### Features

- Vitamin C has alkene glycol structure in its molecular structure. Due to the influence of conjugation effect, C<sub>2</sub>-OH is very weak in acidity (PK<sub>2</sub>=11.57), while C<sub>3</sub>-OH is strong in acidity (PK<sub>1</sub>=4.17). Therefore, vitamin C is generally monobasic acids, which can react as sodium salts with sodium bicarbonate.
- Vitamin C contains two chiral carbon atoms in its molecular structure, so it has optical rotation.
- The alkene glycol group in the molecular structure of vitamin C has strong reducibility. The structure of vitamin C is similar to sugar, so it has the reaction of carbohydrate properties.
- Vitamin C can promote the biosynthesis of bone collagen, which is conducive to the faster healing of tissue wound. In the human body, vitamin C is a highly effective antioxidant. Vitamin C is also needed in many important biosynthetic processes.

### Product specification

Items	Standard
Appearance	White or yellow crystal powder
Odor	No peculiar smell
Assay	≥99%
Specific rotation	+20.5°~+21.5°
Residue on ignition	≤0.1%
Heavy metal (calculate by Pb)	≤10 mg/kg
Lead(Pb)	≤3 mg/kg
Arsenic(As)	≤2 mg/kg
Iron(Fe)	≤2 mg/kg
Cuprum(Cu)	≤5 mg/kg

Henan Fuluorui New Materials Co., Ltd.  
Luoyang Florey Import and Export Co.,Ltd

<https://floreyconcrete.com>

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## Guidelines for Use

### Dosage

In concrete industry, Vitamin C can be used as reducing agent in the synthesis of polycarboxylic superplasticizer. Usually, the amount of Vc is 0.1%~0.5% of the initiator. The optimum dosage needs to be determined experimentally.

### Storage and Handling

Storage Temperature: Products should be stored in 0°C-40°C temperature environment, without direct sunshine, without getting wet in the rain and leaking water, without mixing impurities, without evaporation of water.

Shelf Life: Ascorbic acid has a minimum shelf life of 12 months. Depending on storage conditions, the shelf life may be greater than stated. Please contact us regarding suitability for use and dosage recommendations if the shelf life has been exceeded.

### Packaging

This product is 25kg carton.

### Related Documents

Material Safety Data Sheets: L-ascorbic acid.

### Additional Information

For additional information on Ascorbic acid or its use in developing concrete admixture with special performance characteristics, contact us.

Henan Fuluorui New Materials Co.,Ltd is one of the few technology-based companies working on chemical adjuvant materials for concrete, It has strong R&D capabilities, excellent professionalism, fully automated production lines, rich application experience, and excellent reputation for the R&D, production and application of concrete admixtures and raw materials. There are nearly 500 concrete admixture manufacturers in China that have technical cooperation with our company. Fuluorui has successfully provided ODM and OEM services for customers in North America, Europe, the Middle East, Asia and other markets.

### Limited Warranty Notice

FULUORUI warrants this product to be free from manufacturing defects and to meet the technical properties on the current Technical Data Guide, if used as directed within shelf life.

The Purchaser of the Product(s) must test the

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product(s) for suitability for the intended application and purpose before proceeding with a full application of the product(s). Performance of the product described herein should be verified by testing and carried out by qualified experts.