GC CHEMICALS

SPECIFICATION OF ASCORBIC ACID

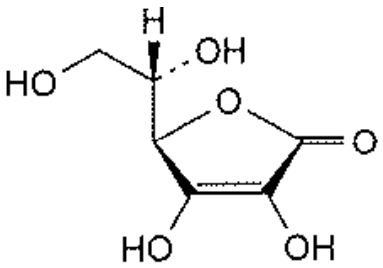
DESCRIPTION

A white or almost white, crystalline powder or colorless crystals, becoming discolored on exposure to air and moisture.

PROPERTIES

Molecular Formula	$C_6H_8O_6$
Relative Molecular Mass	176.13
Chemical Name	L-2, 3, 5, 6-hydroxy-2-hexenic acid-γ-lactones
CAS Number	50-81-7

Structural Formula



APPLICATIONS

Mainly used in producing various medicines，it is an important medicine

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TARTRATE PRODUCERS SINCE 1907

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for clinical supplementary treatment. It can be used in food additive. It is a good and safe nutritional agent， antiseptic and baking agent of flour processing. It can also be used in feed additive and it can improve animals' immunity.

COMPENDIAL REQUIREMENTS

Ascorbic Acid meets the requirements of USP/BP/CP current version when tested according to these compendia.

Identification	Positive
Clarity of solution	Clear, ≤BY_7
Specific rotation	+20.5°to +21.5°
PH	2.1-2.6
Melting point	About 190℃
Residual on ignition	≤0.1%
Impurity E	≤0.2%
Heavy metals	≤10 ppm
Copper	≤5ppm
Iron	≤2ppm
Assay	99.0% ~ 100.5%

STABILITY

Ascorbic acid powder is nonvolatile stable in the dry state, however, upon

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exposure to atmospheric moisture; it can deteriorate, and oxidizes readily to aqueous solution. Contact with iron, copper or nickel salts should be avoided.

PACKING&STORAGE

Ascorbic acid bulk materials are packed in two plastic bags, and the inner plastic bag is thermal sealed, the outer plastic bag is blue and thermal sealed. Then pack in a carton box (or drum), sealed with adhesive tape (or lead sealing). Store in a non-metallic and sealed container, keep in a dry place and away from light.

SHELF LIFE

At least 36 months from date of manufacturing provided the container is unopened and stored under the above-mentioned conditions.

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