



SPECIFICATION

ASCORBIC ACID

DESCRIPTION

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

PROPERTIES

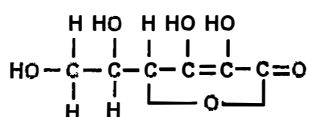
Molecular Formula

Relative Molecular Mass 176.13

Chemical Name L-2, 3, 5, 6-hydroxy-2-hexenic acid-γ-lactone

CAS Number 50-81-7

Structural Formula



APPLICATIONS

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

COMPENDIAL REQUIREMENTS

Ascorbic Acid meets all requirements of USP/BP/JP/FCC/EP when tested according to these compendia.

Characteristics	White or almost white crystalline power or colorless crystals
Identification	Positive Reaction
Melting Point	About 190° C
Specific Rotation	+20.5°~+21.5°
pH	2.1~2.6
Residue on Ignition	≤0.1%
Assay	99.5~100.5%
Loss on Drying	≤0.15%
Heavy Metal	≤0.001%
Lead	≤2ppm
Clarity of Solution	Pass
Color of Solution	≤BY ₇
Impurity E	≤0.2%
Copper Salt	≤0.0005%
Ferrite	≤0.0002%
Arsenic	≤0.0003%
Residual Solvents	Pass
Particle Size	100% through 20 mesh NLT 25% through 40 mesh

NLT 50% retain between 40~80 mesh

STABILITY

Ascorbic acid powder is nonvolatile stable in the dry state, however, upon exposure to atmospheric moisture; it can deteriorate, and oxidizes readily to aqueous solution. Contact with iron, copper or nickel salts should be avoided.

SHELF-LIFE

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

PACKAGING & STORAGE

Ascorbic acid bulk materials are packed in a two-layer plastic bag, 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 sealed containers and keep in a dry place and away from light. (CHEMICAL)

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