

# Ascorbic Acid USP (Vitamin C)

INCI Name: L-Ascorbic Acid



CAS Numbers: 50-81-7

## Description and Applications:

Vitamin C is a water-soluble vitamin, meaning that the body doesn't store it and must acquire it from food, including citrus fruits, broccoli, and tomatoes. It is needed to make collagen, as well as healing wounds, repairing and maintaining bones and teeth. Vitamin C is an antioxidant, which blocks some of the damage caused by free radicals, substances that damage DNA. The build-up of free radicals over time may contribute to the aging process. It is used in cosmetics and skin care to reduce erythema from overexposure to the sun.

## Technical Data:

Characteristics	White or almost white, crystalline powder or colorless crystals
Identification	IR: Complies CA: Positive
Clarity of Solution	Clear
Color of Solution	≤BY <sub>7</sub>
Melting point	About 190°C
Assay	99.0% - 100.5%
Acidity (PH)	2.1 - 2.6
Residue on Ignition	≤0.1%
Specific Rotation (at temperature 25°C)	+ 20.5° - + 21.5°
Heavy metals	≤0.001%
Oxalic Acid	≤0.2%
Copper	≤0.0005%
Iron	≤0.0002%
Related Substances	Impurity C: ≤0.15% Impurity D: ≤0.15% Unspecified impurities: ≤0.10% Total: ≤0.2%
Residual Solvents	Ethanol ≤0.5% Methanol ≤0.3%
Particle Size	≤30% more than 40 mesh ≥45% between 40 and 80 mesh
Arsenic	≤0.0003%
Lead	≤0.0002%
Mercury	≤0.0001%
Acidity (pH)	2.4-2.8 (2% aqueous solution)
Loss on drying	≤0.4%
Staphylococcus aureus	Not detected
Salmonella	Not detected
Escherichia coli	Not detected
Total plate count	≤1000CFU/g
Yeasts, Molds	≤100CFU/g



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