



SHANDONG TIANLI PHARMACEUTICAL CO., LTD.

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Product Information

Description

Ascorbic acid is a white to very pale-yellow crystalline powder with a pleasant sharp acidic taste. Almost odorless.

Identification

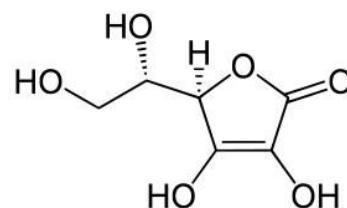
Product Code: 01

IUPAC Name: (2R)-2-[(1S)-1,2-dihydroxyethyl]-3,4-dihydroxy-2H-furan-5-one

Molecular Formula: C₆H₈O₆

CAS No.: 50-81-7

Molecular Weight: 176.12 g/mol



Specifications

Items	Standard
Appearance	White crystalline powder
Identification	Positive
Clarity of solution	Clear
Color of solution	≤BY ₇
Assay	99.0~100.5%
Loss on Drying	≤0.4%
*Residue on ignition	≤0.1%
Specific rotation	+20.5°~+21.5°
PH(with 2% water solution)	2.4-2.8
PH(with 5% water solution)	2.1-2.6
Melting range	About 190°C
Heavy metals	≤3ppm
*Iron	≤2ppm
*Copper	≤2ppm
*Impurity E	≤0.2%
*Arsenic	≤1ppm
*Lead	≤1ppm
*Cadmium	≤1ppm
*Mercury	≤0.1ppm
*Organic volatile impurities	Methanol ≤3000ppm Impurity C≤0.15%
*Related Substances	Impurity D≤0.15% Any Other Unspecific Impurities Impurity≤0.10% Total Impurity≤0.2%
*Total Plate Count	≤1,000cfu/g

According to BP2021/USP43/FCC12/EP10/E300

*These items are periodic analyses.