



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

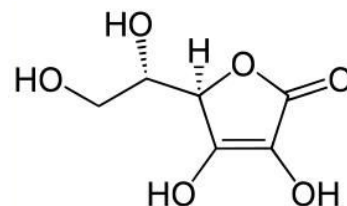
Product Code: 01

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

Molecular Formula: $C_6H_8O_6$

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	$\leq BY_7$
Assay	99.0~100.5%
Loss on Drying	$\leq 0.4\%$
*Residue on ignition	$\leq 0.1\%$
Specific rotation	$+20.5^{\circ} \sim +21.5^{\circ}$
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	$\leq 3\text{ppm}$
*Iron	$\leq 2\text{ppm}$
*Copper	$\leq 2\text{ppm}$
*Impurity E	$\leq 0.2\%$
*Arsenic	$\leq 1\text{ppm}$
*Lead	$\leq 1\text{ppm}$
*Cadmium	$\leq 1\text{ppm}$
*Mercury	$\leq 0.1\text{ppm}$
*Organic volatile impurities	Methanol $\leq 3000\text{ppm}$ Impurity C $\leq 0.15\%$ Impurity D $\leq 0.15\%$
*Related Substances	Any Other Unspecific Impurities Impurity $\leq 0.10\%$ Total Impurity $\leq 0.2\%$
*Total Plate Count	$\leq 1,000\text{cfu/g}$

According to BP2021/USP43/FCC12/EP10/E300

*These items are periodic analyses.