

**PRODUCT SPECIFICATIONS SHEET****Description**

Product name: Ascorbic Acid

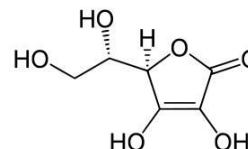
Product Code: 01

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	Test
Appearance	White crystalline powder	
Identification	Positive	USP
Clarity of solution	Clear	EP
Color of solution	≤BY ₇	EP
Assay	99.0~100.5%	USP
Loss on Drying	≤0.4%	E300
*Residue on ignition	≤0.1%	USP
Specific rotation	+20.5°~ +21.5°	USP
PH(with 2% water solution)	2.4-2.8	E300
PH(with 5% water solution)	2.1-2.6	EP
Melting range	About 190°C	EP
Heavy metals	≤3ppm	USP
*Iron	≤2ppm	EP
*Copper	≤2ppm	EP
*Impurity E	≤0.2%	EP
*Arsenic	≤1ppm	USP
*Lead	≤1ppm	FCC
*Cadmium	≤1ppm	
*Mercury	≤0.1ppm	E300
*Organic volatile impurities	Methanol ≤3000ppm	USP
	Impurity C≤0.15%	
	Impurity D≤0.15%	
*Related Substances	Any Other Unspecific Impurities Impurity≤0.10% Total Impurity≤0.2%	EP
*Total Plate Count	≤1,000cfu/g	

According to BP2021/USP43/FCC12/EP10/E300

*These items are periodic analyses.

Packaging: 25KG/Carton; 500KG/Superbag**Storage and Shelf life**

Recommended conditions: Store in a non-metallic container, protected from light.

Shelf life: When stored in a well-closed container at the above storage condition, is suitable for its originally intended application for 36 months.

Upon opening, use the product as quickly as possible.