

WSPC Product Technical Specification Data

Product Name: Ascorbic Acid

Chemical Name: (5R)-5-[(1S)-1, 2-dihydroxyethyl]-3,4-dihydroxyfuran-2(5H)-one

Molecular Formula: C₆H₈O₆

Molecular Weight: 176.13 CAS No.: 50-81-7

Description: A white or almost white, crystalline powder or colorless crystals,

becoming discolors on exposure to air and moisture.

Application: The product is mainly used in producing various medicines. It is an important medicine for clinical supplementary treatment. It can be used as food additives. It is a good and safe nutritional component, antiseptic and baking agent of flour processing. It can also be used as feed additives and it can improve animals' immunity.

Quality Standards: Current BP, USP, E300, EP, FCC.

Standard Specification:

Items	Unit	ВР	USP	E300	FCC	EP
Assay	%	99.0~100.5	99.0~100.5	≥99	99.0~100.5	99.0~100.5
рН	=	2.1~2.6(5%)	=	2.4~2.8(2%)	(- C	2.1~2.6(5%)

Items	Unit	BP	USP	E300	FCC	EP
	0.501058	7 (50)	-	The second secon	100000	7000



Melting point	C	About 190	About 190	189~193		About 190
Identification	-	Positive				
Appearance of solution	-	Clear, ≤BY ₇	-	-	=8	Clear, ≤BY ₇
Specific rotation		+20.5~+21.5				
Impurity E	%	≤0.2	-	-	-37	≤0.2
Impurity C	%	≤0.15	-	-	=,,,	≤0.15
Impurity D	%	≤0.15	-	-	=76	≤0.15
Unspecified impurity	%	≤0.10	_	_	-32	≤0.10
Total	%	≤0.2	_	-	="	≤0.2
Copper	ppm	≤5	-	1	-07	≤5
Iron	ppm	≤2	2	72		≤2
Heavy metals *	ppm	≤10	≤20	-	-0	≤10
Arsenic	ppm	_	_	≤3	-77	20
Lead	ppm	-	-	≤2	≤2	-
Mercury	ppm	-	-	≤1	===	-
Loss on drying	%	_	_	≤0.4		_



Sulphated ash	%	≤0.1	≤0.1	≤0.1	≤0.1	≤0.1
			100-200			5000

Microbiological*	Unit	G.M.P Food Standars	
Total Plate Count	CFU/g	<1000	
Mould and Yeast	CFU/g	<100	
E. Coli		Negative	

^{*}Consider analysis of heavy metals and microbiological, are carried out according to annual control plan.

Package: Ascorbic acid is packed in two plastic bags, and the inner transparent plastic bag is thermal sealed, the outer plastic bag is blue and thermal sealed. Then pack in a carton box, sealed with adhesive tape.

Stability: Ascorbic acid 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.

Storage: Store in sealed containers; keep in a dry place and away from light.