

## " clyzo " - Monograph Comparison





AS PER CURRENT USP 2022/EP11/JP18					
	Product Name	Ascorbic Acid Ph. Eur.,USP		Issue Date	July-23
	Product Code	140032	CG	Prepared by	Sr. Tech Lead
	CAS NO.	50-81-7	GROUP	Reviewed by	Manager Technical
	Manufacturer Name	CG Chemikalein GmbH & Co KG		Version no.	CLYZO/2022/CG/140032/00
Sr. No	Test	Manufacturer COA	Pharmacopeial Specifications		
		Complies USP-NF, Ph. Eur.	USP 2022	EP Version 11.0	JP 18
1	Descriprion	White or almost white crystalline	White or slightly yellow crystals or	White or almost white, crystalline powder or	White crystals or white crystalline powder. It is
		powder	powder. On exposure to light it gradually	colourless crystals, becoming discoloured on	odourless and has an acid taste. Melting point at abou
			darkens. In the dry state, is reasonably		190 °C with decomposition
			stable in air, but in solution rapidly	about 190 °C with decomposition	
_			oxidizes. Melts at about 190°C.		
2	Solubility	Not mentioned	Freely soluble in water; sparingly soluble	Freely soluble in water, sparingly soluble in	Freely soluble in water, sparingly soluble in ethanol
			in alcohol; insoluble in chloroform, in	ethanol (96 per cent).	(95%) practically insoluble in diethyl ether
2	Identification 4	Charild agree high a hard	ether, and in benzene.	The Informal character and the second	The colour of the colour discharged in the Colour
3	Identification 1	Should comply the test	The Infrared absorption spectrum	The Infrared absorption spectrum obtained	The colour of the solution discharged imemdiately in
			obtained with sample should be concordant with spectrum obtained with	with sample should be concordant with spectrum obtained with Ascorbic acid	each case
			Ascorbic acid reference standard/working	1.	
			,	reference standard/working standard	
4	Identification 2	Should comply the test	A 20 mg/ml solution reduces alkaline cupri		A blue colour is developes
			tartarate TS slowly at room temperature	nm (determined immediately after	
			but more readily upon heating	dissolution), Specific absorbance at maximum	
5	Identification 3	Should comply the test	Not mentioned	is between 545 to 585 pH of solution S is between 2.1 and 2.6	Not mentioned
6	Identification 4	Should comply the test	Not mentioned	A grey precipitate is formed	Not mentioned
7	Optical Rotation	Between +20.5 to +21.5 °	Between +20.5 to +21.5 °	Between +20.5 to +21.5 °	Between +20.5 to +21.5 °
8	pH	Not mentioned	Not mentioned	Not mentioned	Between 2.2 and 2.5
9	Clarity and colour of solution	Should comply the test	Not mentioned	Sample solution S is clear and not more	The sample solution is clear and colourless
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, , , , , , , , , , , , , , , , , , ,		intensely coloured than reference solution	, , , , , , , , , , , , , , , , , , ,
				BY7	
10	Heavy metals	NMT 10 ppm	Not mentioned	Not mentioned	NMT 20 ppm
11	Copper	NMT 5 ppm	Not mentioned	NMT 5 ppm	Not mentioned
12	Iron	NMT 2 ppm	Not mentioned	NMT 2 ppm	Not mentioned
13	Loss on drying	NA	Not mentioned	Not mentioned	NMT 0.20% (Silica 24 hours)
14	Residue on Ignition	Not mentioned	NMT 0.1%	Not mentioned	NMT 0.1%
15	Sulphated Ash	NMT 0.1%	Not mentioned	NMT 0.1%	Not mentioned
16	Impurity E	Not mentioned	Not mentioned	NMT 0.2%	Not mentioned
17	Related substances	Not mentioned	Not mentioned	Impurity C & D- NMT 0.15% (each),	Not mentioned
				Maximum unspecified impurity NMT- 0.1%,	
				Total impurities (Excluding impurity C &D)-	
				0.2%	
18	Assay	Between 99.0% and 100.5%	Between 99.0% and 100.5%	Between 99.0% and 100.5%	NLT 99.0% (on dried sample)
19	Microbial limit test		Not mentioned	Not mentioned	Not mentioned
	Total aerobic microbial count	NMT 100 CFU/g			
	Total yeast and molds count	NMT 50 cfu/g			
	E.Coli	Absent/g			
	Pseudomonas aerugonisa	Absent/g			
	Staphylococcus aureus Salmonella	Absent/g			
20	Bacterial Endotoxins	Absent/25 g NMT 2.5 IU/g	Not mentioned	Not mentioned	Not mentioned
20	Storage	Not mentioned	Store in light resistant tight containers	In a non-metallic container, protected from	Store in light resistant tight containers
	JUIAKE	Not illelitiblied	Prove in light reportant right containers	m a non-metanic container, protected from	Store in light resistant right containers

Note - If you need any additional testing. you may use our Additional Testing Feature on the product page or contact your Clyzo reprensentive.