

" clyzo " - Monograph Comparison 🧳





AS PER CURRENT USP 2022/EP11/JP18								
	Product Name	Zinc Sulfate 7-hydrate (USP, BP, Ph. Eur.) pure, pharma grade	PanReac 🌮	Issue Date	March-23			
	Product Code	141787	AppliChem	Prepared by	Sr. Tech Lead			
	CAS NO.	7446-20-0	ITW Reagents	Reviewed by	Manager Technical			
	Manufacturer Name	PanReac AppliChem		Version no.	CLYZO/PAN/141787/01			
Sr. No.	Tect	Manufacturer COA	Manufacturer COA Pharmacopeial Specifications					
511101	i cot	Complies USP, Ph. Eur., BP	USP 2022	EP Version 11.0	JP 18			
1	Description	Small white crystals	Colorless, transparent prisms, or small needles. May occur as a white, granular, crystalline powder. Is odorless and is efflorescent in dry air. Its solutions are acid to litmus.	White or almost white, crystalline powder or colourless, transparent crystals, efflorescent.	Colorless crystals or white crystalline powder. It is efflorescent in dry air			
2	Solubility	Soluble in water	Very soluble in water and in glycerin;	Very soluble in water, practically insoluble in	Very soluble in water, and very slightly soluble			
3	Identification 1	passes test	practically insoluble in alcohol. In assay test, the retention time of the zinc peak of the Sample solution corresponds to that of the Standard solution	ethanol (96 %. Should comply by a flocullant white precipitate formation	in ethanol (99.5). 1. With addition of ammonium sulfide TS or sodium sulfide TS a white precipitate should be formed. 2. Should form a white precipitate with potassium hexacyanoferrate (II) TS.3. Should form a a white precipitate, when 1 or 2 drops of pyridine and 1 mL of potassium thiocyanate TS are added.			
4	Identification 2	passes test	1. With barium chloride TS a white precipitate, which is insoluble in HCl and HNO3. 2. After addition of lead (II) acetate TS a white precipitate should be formed. 3. With equal volume of HCl no precipitate should be formed (discrimination from thiosulfates)	1. With addition of dilute HCl and BaCl2 a white precipitate should be formed. 2. In the suspension obtained in identification (1) add lodine, suspension remains yellow (distinction from sulfites and dithionites), but should be decolorised by adding dropwise stannous chloride solution (distinction from iodates). Boil the mixture. No coloured precipitate should be formed (distinction from selenates and tungstates).	1. With barium chloride TS a white precipitate, which does not dissolve upon addition of dilute HNO3 should be formed. 2. After addition of lead (II) acetate TS a white precipitate should be formed. 3. With equal volume of HCI no white turbidity should be formed (discrimination from thiosulfates), and do not evolve the odor of sulfur dioxide (discrimination from sulfites).			
5	Identification 3	passes test	Not mentioned	It should comply with the limits of the assay.	Not mentioned			
6	Appearance of solution	passes test	Not mentioned	Sample solution should be clear and colourless	Sample solution should be clear and colorless			
7	Acidity	passes test	The sample solution should not colored pink by methyl orange TS.	Not mentioned	Not mentioned			
8	рН	Between 4.4 and 5.6	NA	Between 4.4 and 5.6	Between 4.4 qmd 6.0			
9	Alkalies and alkali earth	NMT 0.5%	NMT 0.9 %	Not mentioned	NMT 0.5%			
10	Arsenic	NMT 0.0001 %	NMT 14 ppm	Not mentioned	NMT 2 ppm			
11	Iron	NMT 0.005%	NA	NMT 100 ppm	Not mentioned			
12	Heavy metals (Lead)	NMT 0.00005 %	NMT 20 ppm	Not mentioned	NMT 10 ppm			
13	Chlorides	NMT 0.03%	NA	NMT 300 ppm	Not mentioned			
14	Nitrogen compounds	NMT 0.005%						
15	Calcium	NMT 0.02%						
16	Loss on drying	Not mentioned	Not mentioned	Not mentioned	Between 35.5% and 38.%			
17	Assay (as zinc sulfate monohydrate)	Between 99.0% and 104.0%	Between 99.0% and 107.8%	Between 99.0% and 104.0 %	Between 99.0% and 102.0%			
	Elemental Impurities		Not mentioned	Not mentioned	Not mentioned			

	Cd	NMT 0.5 ppm			1					
	Pb	NMT 0.5 ppm	1		1					
	As	NMT 1 ppm								
	Hg	NMT 1.5 ppm								
	CO	NMT 5 ppm								
	V	NMT 10 ppm								
	Ni	NMT 20 ppm								
	TI	NMT 0.8 ppm								
	Au	NMT 10 ppm								
	Pd	NMT 10 ppm								
	lr	NMT 10 ppm								
8	Os	NMT 10 ppm								
	Rh	NMT 10 ppm								
	Ru	NMT 10 ppm								
	Se	NMT 15 ppm								
	Ag	NMT 15 ppm								
	Pt	NMT 10 ppm								
	Li	NMT 55 ppm								
	Sb	NMT 120 ppm								
	Ba	NMT 140 ppm								
	Мо	NMT 25 ppm								
	Cu	NMT 250 ppm								
	Sn	NMT 600 ppm								
	Cr	NMT 25 ppm								
9	Residual solvents	passes test	Not mentioned	Not mentioned	Not mentioned					
	Storage	Keep container tightly closed in a dry and well-	Preserve in tight containers.	In a non-metallic, airtight container.	Tieht eestein est					
		ventilated place.			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.									

Disclaimer - The information above is solely for your consideration. We do not recommend or affirm the suitability for any specific end use. We suggest the users should research & verify the specifications in accordance with their intended usage.