

" clyzo " - Monograph Comparison





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	AS PER CURRENT USP 2022/EP11/JP18								
	Product Name	Sodium Thiosulfate 5-hydrate (USP, BP, Ph. Eur.) pure, pharma grade	PanReac AppliChem	Issue Date	March-23				
	Product Code	141721	AppliChem	Prepared by	Sr. Tech Lead				
	CAS NO.	10102-17-7	ITW Reagents	Reviewed by	Manager Technical				
	Manufacturer Name	PanReac AppliChem		Version no.	CLYZO/PAN/141721/01				
Sr. No.	Test	Manufacturer COA	Pharmacopeial Specifications						
		Complies USP, BP, Ph. Eur.	USP 2022	EP Version 11.0	JP 18				
1	Description	crystals, White. Hygroscopic	Large, colorless crystals or coarse, crystalline powder.	Transparent, colourless crystals, efflorescent in dry air.	colorless, crystals or crystalline powder. It is odorless. It effloresces in dry air, and is deliquescent in moist air.				
2	Solubility	very soluble in water	Is deliquescent in moist air and effloresces in dry air at temperatures exceeding 33°. Its solutions are neutral or faintly alkaline to litmus. Very soluble in water; insoluble in alcohol	Very soluble in water, practically insoluble in ethanol 96 %. It dissolves in its water of crystallisation at about 49 °C.	It is very soluble in water, and practically insoluble in ethanol (99.5).				
3	Identification 1	Passes The Test	The infrared absorption spectrum obtained with sample should be concordant with spectrum obtained with Sodium Thiosulfate 5-hydrate reference/working standard	Should decolourise iodinated potassium iodide solution .	1. Should comply by fading color of reagent. 2. Should evolve the odor of sulfur dioxide, and produce a white turbidity, which changes to yellow on standing. 3. Should comply by formation of white precipitate, which changes to black on standing.				
4	Identification 2 (Sodium)	Passes The Test	Should comply by a dense precipitate formation	1.Should comply by a dense white precipitate formation. 2.Should comply by a voluminous, white, crystalline precipitate formation					
5	Identification 3	Passes The Test	Not mentioned	Should comply by a precipitate of sulfur formation and gas is evolved which should give a blue colour to starch iodate paper .	Not mentioned				
6	Identification 4	Passes The Test	Not mentioned	Should comply by a white precipitate formation which rapidly becomes yellowish and then black.	Not mentioned				
7	pH	Between 6.0 and 8.4	Not mentioned	Between 6.0 and 8.4	Between 6.0 and 8.0				
8	Appearance of solution	Passes The Test	Not mentioned	Sample solution should be clear and colourless	Sample solution should be clear and colorless.				
9	Chloride	NMT 0.02 %	Not mentioned	Not mentioned	Not mentioned				
10	Nitrogen compounds (as N)	NMT 0.01 %	Not mentioned	Not mentioned	Not mentioned				
11	Sulfide	Passes The Test	Not mentioned	The solution should not become violet.	Not mentioned				
12	Sulfate and sulfite	NMT 0.2 %	Not mentioned	NMT 0.2 %	Not mentioned				
13	Calcium	Passes The Test	No turbidity should be produced.	Not mentioned	No turbidity should be produced.				
14	Iron	NMT 0.001 %	Not mentioned	Not mentioned	Not mentioned				
15	Magnesium	NMT 0.01 %	Not mentioned	Not mentioned	Not mentioned				
16	Arsenic	Not mentioned	Not mentioned	Not mentioned	NMT 5 ppm				
17	Heavy Metals	Not mentioned	Not mentioned	Not mentioned	NMT 20 ppm				
18	Water	Not mentioned	Between 32.0% and 37.0%	Not mentioned	Not mentioned				

19	Loss on drying	Between 32.0% and 37.0 %	Not mentioned	Not mentioned	Between 32.0% and 37.0 %
20	Assay	Between 99.0% and 100.5%	Between 99.0% and 100.5%	Between 99.0 % and 101.0 %	Between 99.0 % and 101.0 %
		Between 99.0% and 101.0%			
21	Elemental Impurities		Not mentioned	Not mentioned	Not mentioned
	Cd	NMT 0.5 ppm	1		
	Pb	NMT 0.5 ppm			
	As	NMT 1.5 ppm			
	Hg	NMT 1.5 ppm			
	СО	NMT 5 ppm			
	V	NMT 10 ppm			
	Ni	NMT 20 ppm			
	TI	NMT 0.8 ppm			
	Au	NMT 10 ppm			
	Pd	NMT 10 ppm			
	Ir	NMT 10 ppm			
	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			
	Ва	NMT 140 ppm			
	Мо	NMT 25 ppm			
	Cu	NMT 250 ppm			
	Sn	NMT 600 ppm			
	Cr	NMT 25 ppm			
22	Residual solvents	Passes The Test	Not mentioned	Not mentioned	Not mentioned
	Storage	Storage away from direct light	Preserve in tight containers.	In an airtight container.	Containers—Tight 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.