



" clyzo " - Monograph Comparison



AS PER CURRENT USP 2022/EP11/JP18

Product Name	Sodium di-Hydrogen Phosphate 2-hydrate (USP, BP) pure, pharma grade	 PanReac AppliChem ITW Reagents	Issue Date	March-23
Product Code	141677		Prepared by	Sr. Tech Lead
CAS NO.	13472-35-0		Reviewed by	Manager Technical
Manufacturer Name	PanReac AppliChem		Version no.	CLYZO/PAN/141677/01

Sr. No.	Test	Manufacturer COA		Pharmacopeial Specifications	
		Complies USP, BP	USP 2022	EP Version 11.0	JP 18
1	Description	White crystalline Powder or crystals	Colorless crystals or white, crystalline powder. Is odorless and is slightly deliquescent. Its solutions are acid to litmus and effervesce with sodium carbonate.	white or almost white powder or colourless crystals	
2	Solubility	Soluble in water, practically insoluble in ethanol 96%.	Freely soluble in water; practically insoluble in alcohol	very soluble in water, very slightly soluble in ethanol (96 per cent)	
3	Identification 1 Sodium	Passes the test	1. After addition of AgNO3 solution, a yellow precipitate should be formed whose colour should not be changed by boiling and dissolves on addition of ammonia .2. After addition of ammonium molybdate, a yellow precipitate should be developed which is soluble in 6N NH4OH	After addition of AgNO3 solution a yellow precipitate should be formed whose colour is not changed by boiling and which dissolves on addition of ammonia 2. After addition of molybdovanadic reagent, a yellow colour should develop	
4	Identification 2 Phosphate	Passes the test	After addition of potassium pyroantimonate solution a dense white precipitate should be formed	Should comply by a dense white precipitate	
5	Identification 3	Passes the test	Not mentioned	Solution should be slightly acid having pH between 4.0 and 6.0	
6	Appearance of solution	Passes the test	Not mentioned	Sample solution should be clear and colourless	
7	Reducing substances	Passes the test	Not mentioned	The colour of the permanganate should not completely discharged.	
8	Iron	NMT 0.001%	Not mentioned	NMT 10 ppm	
9	Insoluble substances in water	NMT 0.005%	NMT 0.2%	NA	
10	Chloride	NMT 0.005%	NMT 0.014%	NMT 200 ppm	
11	Sulfates	NMT 0.01%	NMT 0.15%	NMT 300 ppm	
12	pH	Between 4.2 and 4.5	Between 4.1 and 4.5	Between 4.2 and 4.5	
13	Aluminium, Calcium & Related elements	Passes the test	The Sample solution should not become turbid	NA	
14	Arsenic	NMT 0.00015%	NMT 8 ppm		
15	Loss on drying	Between 21.5% and 24.0%	Not mentioned	Between 21.5 % and 24.0 %	Product Not Official Japanese Pharmacopoeia
16	Water	Not mentioned	Between 18.0% and 26.5%		
17	Assay (anhydrous basis)	Between 98.0% and 100.5%	Between 98.0% and 103.0%	Between 98.0 % and 100.5%	
	Elemental Impurities				
	Cd	NMT 0.5 ppm			
	Pb	NMT 0.5 ppm			
	As	NMT 1.5 ppm			
	Hg	NMT 1.5 ppm			
	CO	NMT 5 ppm			
	V	NMT 10 ppm			
	Ni	NMT 20 ppm			
	Tl	NMT 0.8 ppm			

18	Au	NMT 10 ppm	Not mentioned	Not mentioned
	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		
	Ba	NMT 140 ppm		
	Mo	NMT 25 ppm		
	Cu	NMT 250 ppm		
Sn	NMT 600 ppm			
Cr	NMT 25 ppm			
19	Residual solvent	Passes the test	Not mentioned	Not mentioned
	Storage	Keep container tightly closed in a dry and well-ventilated place at room temperature	Preserve in well-closed containers.	Not mentioned

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

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.