

" clyzo " - Monograph Comparison





AS PER CURRENT USP 2022/EP11/JP18								
	Product Name	tri-Sodium Citrate 2-hydrate (USP, BP, Ph. Eur.) pure, pharma grade	PanReac AppliChem	Issue Date	March-23			
	Product Code	141655	AppliChem	Prepared by	Sr. Tech Lead			
	CAS NO.	6132-04-3	ITW Reagents	Reviewed by	Manager Technical			
	Manufacturer Name	PanReac AppliChem		Version no.	CLYZO/PAN/141655/01			
		Manufacturer COA	Pharmacopeial Specifications					
Sr. No.	Test	Wallufacturer COA		Filalinacopeiai specincations				
		Complies USP, Ph. Eur., BP	USP 2022	EP Version 11.0	JP 18			
1	Description	White, Small crystals	Colorless crystals, or white, crystalline powder.	White or almost white, crystalline powder or white or almost white, granular crystals, slightly deliquescent in moist air.	Colorless crystals, or a white crystalline powder. It is odorless, and has a cooling, saline taste			
2	Solubility	Soluble in water	Not mentioned	Freely soluble in water, practically insoluble in	Freely soluble in water, and practically insoluble			
	Solubility	Soluble III Water		ethanol (96 per cent)	in ethanol (95) and in diethyl ether.			
3			Should comply by a light red color formation	After addition of an excess of concentrated ammonia	(1) After addition of 20 mL of a mixture of			
	Identification 1	Passes test		should produces a violet colour, which turns to violet- blue	color should develop.2. After addition of equal volume of H2SO4 and 2/3rd volume of KMnO4 should produce a white precipitate. (3) When boliled with excess CaCl2 solution, should produce a white crystalline precipitate.			
4	Identification 2	Passes test	Should comply by a dense white precipitate formation	Should comply by a dense white precipitate formation	Should develope yellow coloured flame. 2. Should comply by formation of a white, crystalline precipitate with addition of potassium hexahydroxoantimonate (V) TS.			
5	Identification 3	Passes test	Upon ignition it should form an alkaline residue	Not mentioned	Not mentioned			
6	Clarity and color of solution	Passes test	Not mentioned	Sample Solution should be clear and colourless	Sample solution should be clear and colorless			
7	Matter insoluble in water	NMT 0.025%	Not mentioned	Not mentioned	Not mentioned			
8	Acidity or alkalinity	Passes test	After addition of 0.2 ml 0.01N H2SO4 should not produce pink color	Not mentioned	Not mentioned			
9	pH	Between 7.5 and 9.0	Not mentioned	Between 7.5 and 8.5	Between 7.9 and 8.4.			
10	Chloride	NMT 0.0050 %	Not mentioned	NMT 50 ppm	NMT 0.015%			
11	Ammonium	NMT 0.002%	Not mentioned	Not mentioned	Not mentioned			
12	Sulfate	NMT 0.0150 %	Not mentioned	NMT 150 ppm	NMT 0.048%			
13	Oxalate	NMT 0.0300 %	Not mentioned	NMT 300 ppm	Sample solution should be clear			
14	Potassium	NMT 0.1%	Not mentioned	Not mentioned	Not mentioned			
15	Tartrate	Passes test	No crystalline precipitate should be formed.	Not mentioned	No crystalline precipitate should be formed			
16	Water	Between 11.0% and 13.0 %	Between 10.0% and 13.0 %	Between 11.0% and 13.0 %	Not mentioned			
17	Loss on drying	Not mentioned	Not mentioned	Not mentioned	Between 10.0% and 13.0 %			
18	Readily carbonisable substances	Passes test	Not mentioned	The solution should not be more intensely coloured than reference solution Y2 or GY2	Sample solution should be less intensely colored than Matching Fluid K			
19	Arsenic	Not mentioned	Not mentioned	Not mentioned	NMT 2 ppm			
20	Heavy metals	Not mentioned	Not mentioned	Not mentioned	NMT 10 ppm			
21	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 %			
	Elemental Impurities							
	Cd	NMT 0.5 ppm						

1	Pb	NIMT E nam		I	1
		NMT 5 ppm			
	As	NMT 1.5 ppm			
		NMT 1.5 ppm			
22	CO	NMT 5 ppm	Not mentioned	Not mentioned	Not mentioned
	V	NMT 10 ppm			
	Ni	NMT 20 ppm			
	TI	NMT 5 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			
		NMT 55 ppm			
	Sb	NMT 120 ppm			
	Ва	NMT 140 ppm			
	Mo	NMT 25 ppm			
	Cu	NMT 250 ppm			
	Sn	NMT 600 ppm			
	Cr	NMT 25 ppm			
23	Residual solvents	passes test	Not mentioned	Not mentioned	Not mentioned
	Storage	Preserve in tight containers.	In an airtight container.	Containers — Tight 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.