



" clyzo " - Monograph Comparison



AS PER CURRENT USP 2022/EP11/JP18

Product Name	Zinc Chloride (Ph. Eur., USP) pharma grade		Issue Date	March-23
Product Code	191779		Prepared by	Sr. Tech Lead
CAS NO.	7646-85-7		Reviewed by	Manager Technical
Manufacturer Name	PanReac AppliChem		Version no.	CLYZO/PAN/191779/01

Sr. No.	Test	Pharmacopeial Specifications			
		Manufacturer COA <i>Complies USP, Ph. Eur.</i>	USP 2022	EP Version 11.0	JP 18
1	Description	Solid	White or practically white, odorless, crystalline powder, or white or practically white crystalline granules. May also be in	White or almost white, crystalline powder or cast in white or almost white sticks, deliquescent.	White, crystalline powder, rods, or masses. It is odorless. It is deliquescent. The pH of 50% solution between 3.3 and 5.3. It is deliquescent
2	Solubility	Soluble in water	Very soluble in water; freely soluble in alcohol and in glycerin. Its solution in water or in alcohol is usually slightly turbid, but the turbidity disappears when a small quantity of hydrochloric acid is added.	Very soluble in water, freely soluble in ethanol (96 %) and in glycerol.	It is very soluble in water, and freely soluble in ethanol (95), and its solution may sometimes be slightly turbid. The solution becomes clear on addition of a small amount of hydrochloric acid.
3	Identification 1 Chloride	Passes The Test	1. Should comply by curdy white precipitate formation which dissolves in ammonia	Should comply by curdled white precipitate formation which dissolves in ammonia	1. When mixed & heated with H ₂ SO ₄ & KMnO ₄ , should evolve an odor of chlorine, which turns moistened KI starch paper blue 2. Should comply by formation of white precipitate after addition of AgNO ₃
4	Identification 2 Zinc	Passes The Test	1. After addition of hydrogen sulfide and sodium acetate, a white precipitate is produced. Insoluble in acetic acid but soluble in hydrochloric acid. 2. After addition of ammonium sulfide and sodium acetate, a white precipitate is produced. 3. After addition of potassium ferrocyanide a white precipitate is produced insoluble in dil hydrochloric acid.	Should comply by formation of a flocculent white precipitate on addition of ammonium chloride and sodium sulfide solution.	1. After addition of ammonium sulfide TS or sodium sulfide TS, a whitish precipitate is formed. 2. After addition of potassium hexacyanoferrate (II) TS a white precipitate is produced. 3. After addition of 1-2 drops of pyridine and 1 ml potassium thiocyanate a white precipitate, is produced
5	pH	Between 4.6 and 5.5.	Not mentioned	Between 4.6 and 5.5.	Not mentioned
6	Clarity and color of solution	Not mentioned	Not mentioned	Not mentioned	The sample solution should be clear and colourless
7	Oxychloride	Passes The Test	The solution should become perfectly clear.	Any cloudiness should disappear on the addition of 0.2 ml of dilute HCl	The solution should be clear.
8	Sulfates	NMT 0.02 %	NMT 0.03 %	NMT 200 ppm	NMT 0.010 %
	Lead	NMT 0.005%	NMT 0.005%	Not mentioned	Not mentioned
9	Alkalies and alkaline earths	NMT 1.0 %	NMT 1.0 %	Not mentioned	NMT 1.0%
10	Ammonium(USP)	NMT 0.04%	No odor of ammonia should be perceptible	NMT 400 ppm	The evolving gas should not change moistened red litmus paper to blue
11	Aluminium, Calcium, Iron & Magnesium	Passes The Test	Not mentioned	A white precipitate should be formed and the supernatant remains colourless.	Not mentioned
12	Heavy metals	NMT 0.005 %	NMT 0.005%	Not mentioned	NMT 50 ppm
13	Arsenic	Not mentioned	Not mentioned	Not mentioned	NMT 5 ppm
15	Assay	Between 97.0 % and 100.5 %	Between 97.0 % and 100.5 %	Between 95.0 % and 100.5 %	NLT 97.0 %
	Storage	Store at room temperature	Preserve in tight containers.	In a non-metallic container	Tight Containers

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.