



" clyzo " - Monograph Comparison



AS PER CURRENT USP 2022/EP11/JP18

Product Name	Magnesium Chloride 6-hydrate (BP, Ph. Eur.) pure, pharma grade		Issue Date	March-23
Product Code	141396		Prepared by	Sr. Tech Lead
CAS NO.	7791-18-6		Reviewed by	Manager Technical
Manufacturer Name	PanReac AppliChem		Version no.	CLYZO/PAN/141396/01

Sr. No.	Test	Manufacturer COA		Pharmacopeial Specifications	
		Complies Ph. Eur, BP	USP 2022	EP Version 11.0	JP 18
1	Description	Small White Crystals	Colorless, odorless, deliquescent flakes or crystals, which lose water when heated to 100° and lose hydrochloric acid when heated to 110°C.	colourless crystals, hygroscopic	Product Not Official in Japanese pharmacopoeia
2	Solubility	Very soluble in water	Very soluble in water; freely soluble in alcohol.	very soluble in water, freely soluble in ethanol (96 per cent)	
3	Identification 1 (Magnesium)	Passes The Test	1. After addition of NH4Cl yield NMT a slightly hazy precipitate should be formed when neutralized with ammonium carbonate TS, but on the subsequent addition of dibasic sodium phosphate TS, a white, crystalline precipitate, which is insoluble in 6 N ammonium hydroxide, is formed	After addition of 1 mL of dilute NH3, a white precipitate should be formed that dissolves on addition of 1 mL of ammonium chloride solution. Add 1 mL of disodium hydrogen phosphate solution. A white crystalline precipitate is formed.	
4	Identification 2 (Chloride)	Passes The Test	With silver nitrate TS, yield a white, curdy precipitate that is insoluble in nitric acid but is soluble in a slight excess of 6 N ammonium hydroxide	1. With silver nitrate solution a curdled, white precipitate is formed soluble in aqueous ammonia solution. 2. Add potassium dichromate and 1 mL of sulfuric acid. Place a filter-paper strip impregnated with 0.1 mL of diphenylcarbazide solution R over the opening of the test-tube. The paper turns violet-red.	
5	Identification 3	Passes The Test	Not mentioned	Should comply by water content test	
6	Appearance of solution	Passes The Test	Not mentioned	sample solution should be clear and colourless	
7	Water insoluble Matter	Not mentioned	NMT 0.005%	Not mentioned	
8	Acidity or alkalinity	Passes The Test	Not mentioned	NMT 0.3 ml 0.01 M HCl or 0.01 M NaOH is required to change the colour of the indicator.	
9	pH	Not mentioned	Between 4.5 and 7.0	Not mentioned	
10	Ammonium	NMT 0.005 %	Not mentioned	Not mentioned	
11	Barium	Not mentioned	No turbidity should be produced within 2 hours.	Not mentioned	
12	Bromide	NMT 0.05 %	Not mentioned	NMT 500 ppm	
13	Phosphate	NMT 0.003 %	Not mentioned	Not mentioned	
14	Sulfate	NMT 0.01 %	NMT 0.005%	NMT 100 ppm	
15	Water	Between 51.0 % and 55.0 %	Not mentioned	Between 51.0 % and 55.0 %	
16	Aluminium	NMT 0.0001 %	NMT 1 ppm	NMT 1 ppm	
17	Calcium	NMT 0.1 %	NMT 0.01%	NMT 0.1 %	
18	Potassium	NMT 0.05 %	No turbidity should be produced within 5 min	NMT 500 ppm	
19	Iron	NMT 0.001%	No	NMT 10 PPM	
20	Assay	Between 98.0% and 101.0%	Between 98.0% and 101.0%	Between 98.0% and 101.0%	
	Elemental Impurities		Not mentioned	Not mentioned	
	Cd	NMT 0.5 ppm			
	Pb	NMT 0.5 ppm			
	As	NMT 1.5 ppm			

21	Hg	NMT 1.5 ppm			
	CO	NMT 5 ppm			
	V	NMT 10 ppm			
	Ni	NMT 20 ppm			
	Tl	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			
	Ba	NMT 140 ppm			
	Mo	NMT 25 ppm			
	Cu	NMT 250 ppm			
	Sn	NMT 600 ppm			
Cr	NMT 25 ppm				
22	Residual solvents (Ph.Eur)	Passes The Test	Not mentioned	Not mentioned	
	Storage	Keep container tightly closed in a dry and well-ventilate	Preserve in well-closed containers.	In an airtight container.	

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.