



" clyzo " - Monograph Comparison



AS PER CURRENT USP 2022/EP11/JP18

Product Name	Potassium Nitrate without anticaking (BP, Ph. Eur.) pure, pharma grade		Issue Date	March-23
Product Code	141524		Prepared by	Sr. Tech Lead
CAS NO.	7757-79-1		Reviewed by	Manager Technical
Manufacturer Name	PanReac AppliChem		Version no.	CLYZO/PAN/141524/01

Sr. No.	Test	Manufacturer COA		Pharmacopeial Specifications	
		Complies BP, Ph. Eur.	USP 2022	EP Version 11.0	JP 18
1	Description	Small white crystals	White, crystalline powder or colorless crystals.	White or almost white, crystalline powder or colorless crystals.	Product Not Official in Japanese pharmacopoeia
2	Solubility	Freely soluble in water	Very soluble in boiling water; freely soluble in water; soluble in glycerin; practically insoluble in alcohol.	Freely soluble in water, very soluble in boiling water, practically insoluble in ethanol (96 %).	
3	Identification 1 (Potassium)	Passes The Test	With addition of sodium bitartrate TS should produce a white crystalline precipitate	1.A white crystalline precipitate should be formed.2.A yellow or orange-yellow precipitate should be formed immediately	
4	Identification 2 (Nitrate)	Passes The Test	1. Should comply by a brown color is formation at the junction of the two liquids.2. Should evolve brownish-red fumes. 3. Should not decolorize acidified potassium permanganate TS (distinction from nitrites).	The upper layer should be coloured deep violet.	
5	Appearance of solution	Passes The Test	Not mentioned	Sample solution should be clear and colorless	
6	Acidity or alkalinity	Passes The Test	Not mentioned	NMT than 0.5 ml of 0.01 M HCl or 0.01 M NaOH is required to change the colour of the indicator.	
7	Insoluble matter in H ₂ O	NMT 0.025 %		Not mentioned	
8	pH	Between 4.5 and 8.5	Not mentioned	Not mentioned	
9	Chlorides	NMT 0.002%	NMT 0.03%	NMT 20 ppm	
10	Ammonium	NMT 0.005%	Not mentioned	NMT 100 ppm	
11	Phosphate	NMT 0.003%	Not mentioned	Not mentioned	
12	Sulfate	NMT 0.01 %	NMT 0.01 %	NMT 150 ppm	
13	Nitrite	Not mentioned	NMT 5 ppm	Not mentioned	
14	Lead	Not mentioned	NMT 10 ppm	Not mentioned	
15	Reducible substances	Passes The Test	Not mentioned	The solution should not become blue within 2	
16	Arsenic	Not mentioned	NMT 3 ppm	Not mentioned	
17	Calcium	0.005%	Not mentioned	NMT 100 ppm	
18	Iron	0.001%	NMT 10 ppm	NMT 20 ppm	
19	Magnesium	0.005%	Not mentioned	Not mentioned	
20	Sodium	0.10%	NMT 0.1%	NMT 0.1%	
21	Loss on drying	NMT 0.5%	Not mentioned	NMT 0.5%	
22	Assay (dried basis)	Between 99.0% and 100.5%	Between 99.0% and 100.5%	Between 99.0% and 101.0%	
23	Elemental Impurities		Not mentioned	Not mentioned	
	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			
	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			
24	Residual solvents	Passes The Test	Not mentioned	Not mentioned	
	Storage	Store at room temperature	Preserve in tight 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.