



# " clyzo " - Monograph Comparison



## AS PER CURRENT USP 2022/EP11/JP18

<b>Product Name</b>	Potassium Iodide (USP, BP, Ph. Eur.) pure, pharma grade		<b>Issue Date</b>	March-23
<b>Product Code</b>	141542		<b>Prepared by</b>	Sr. Tech Lead
<b>CAS NO.</b>	7681-11-0		<b>Reviewed by</b>	Manager Technical
<b>Manufacturer Name</b>	PanReac AppliChem		<b>Version no.</b>	CLYZO/PAN/141542/01

Sr. No.	Test	Manufacturer COA	Pharmacopeial Specifications		
		<i>Complies USP, BP, Ph. Eur.</i>	<i>USP 2022</i>	<i>EP Version 11.0</i>	<i>JP 18</i>
1	Description	White crystalline powder.	Hexahedral crystals, either transparent and colorless or somewhat opaque and white, or a white, granular powder.	White or almost white powder or colourless crystals	colorless or white crystals, or a white crystalline powder. It is slightly deliquescent in moist air.
2	Solubility	Very soluble in water	Very soluble in water and even more soluble in boiling water; freely soluble in glycerin; soluble in alcohol.	Very soluble in water, freely soluble in glycerol, soluble in ethanol (96 per cent).	Very soluble in water, soluble in ethanol (95), and practically insoluble in diethyl ether.
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	1. Should exhibit a pale purple color during flame test 2. Should produce a white, crystalline precipitate with sodium hydrogen tartrate TS. 3. Should yield a yellow precipitate with sodium hexanitrocobaltate (III) TS. 4. Should not evolve the odor of ammonia, when an excess of sodium hydroxide TS is added and warmed
4	Identification 2 (Iodide)	Passes The Test	1.Addition of chlorine TS should change the color of solution from yellow to red.2.Silver nitrate TS should produce a yellow, curdy precipitate	1.With silver nitrate solution a curdled, pale-yellow precipitate should be formed. 2. The chloroform layer should be coloured violet or violet-red.	1. Should produce white precipitate with silver nitrate 2. Should exhibit a yellow-brown color with sodium nitrite TS and then yield a black-purple precipitate
5	Appearance of solution	Passes The Test	Not mentioned	Sample solution should be clear and colorless.	Sample solution should be clear and colorless.
6	Insoluble matter in H2O	NMT 0.01 %	Not mentioned	Not mentioned	Not mentioned
7	Alkalinity	Passes The Test	No color should be produced.	NMT 0.5 ml of 0.01 M HCl is required to change the colour of the indicator	After addition of 0.5 ml 0.005M H2SO4, no color should develop
8	Iodate	Passes The Test	NMT 4 ppm	No reddish brown colour should develop	No blue color should develop immediately
9	Nitrate, Nitrite, and Ammonia	Passes The Test	No blue coloration of the paper should be discernible.	Not mentioned	The gas evolved should not turn red litmus paper to blue
10	Thiosulfate	Passes The Test	No turbidity should develop within 1 minute	A reddish-brown colour should be produced	The solution has no more turbidity than that of the control solution
11	Barium	Passes The Test	No turbidity should develop within 1 minute	Not mentioned	No turbidity should be produced.
12	Chloride, bromide and thiosulfate	NMT 0.05%	Not mentioned	Not mentioned	Sample solution should not be more turbid than control solution
13	Sulfates	NMT 0.015%	Not mentioned	NMT 150 ppm	Not mentioned
14	Cyanide	Not mentioned	Not mentioned	No	No green color should develop
15	Iron	NMT 0.002 %	Not mentioned	NMT 20 ppm	Not mentioned
16	Loss on drying	NMT 1.0%	NMT 1.0%	NMT 1.0 %	NMT 1.0 %
17	Heavy metals	NMT 0.001%	Not mentioned	Not mentioned	NMT 10 ppm

18	Sodium	Not mentioned	Not mentioned	Not mentioned	A yellow color should develop, but does not persist.
19	Arsenic	Not mentioned	Not mentioned	Not mentioned	NMT 5 ppm
20	Assay (dried basis)	Between 99.0 % and 100.5 %	Between 99.0 % and 101.5 %	Between 99.0 % and 100.5 %	NLT 99.0 %
21	Elemental impurities		Not mentioned	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 10 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	Passes The Test	Not mentioned	Not mentioned	Not mentioned
	Storage	Store away from direct sunlight	Preserve in well-closed containers.	Protected from light	Tight light-resistant containers
Note - If you need any additional testing, you may use our Additional Testing Feature on the product page or contact your Clyzo representative.					
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