



# " clyzo " - Monograph Comparison



## AS PER CURRENT USP 2022/EP11/JP18

<b>Product Name</b>	Potassium Chloride (USP, BP, Ph. Eur.) pharma grade		<b>Issue Date</b>	March-23
<b>Product Code</b>	191494		<b>Prepared by</b>	Sr. Tech Lead
<b>CAS NO.</b>	7447-40-7		<b>Reviewed by</b>	Manager Technical
<b>Manufacturer Name</b>	PanReac AppliChem		<b>Version no.</b>	CLYZO/PAN/191494/01

Sr. No.	Test	Pharmacopeial Specifications			
		Manufacturer COA <i>Complies USP, BP, Ph. Eur</i>	USP 2022	EP Version 11.0	JP 18
1	Description	White crystalline powder	Colorless, elongated, prismatic, or cubical crystals, or white, granular powder. Is odorless, has a saline taste, and is stable in air. Its solutions are neutral to litmus	White or almost white, crystalline powder or colourless crystals.	Colorless or white crystals or crystalline powder. It is odorless, and has a saline taste. !0% solution is neutral
2	Solubility	Freely soluble in water	Freely soluble in water; insoluble in alcohol	Freely soluble in water, practically insoluble in anhydrous ethanol	Freely soluble in water, and practically insoluble in ethanol (95) and in diethyl ether.
3	Identification 1 Chloride	Passes The Test	Should comply by curdled white precipitate formation which dissolves in ammonia	Should comply by curdled white precipitate formation which dissolves in ammonia	1. When mixed & heated with H2SO4 & KMnO4, should evolve an odor of chlorine, which turns moistened KI starch paper blue 2. Should comply by formation of white precipitate after addition of AgNO3
4	Identification 2 Potassium	Passes The Test	1. After addition of sodium bitartrate TS a white crystalline precipitate is produced which is soluble in 6 N ammonium hydroxide and in solutions of alkali hydroxides and carbonates.	1. Should comply by a white crystalline precipitate formation 2. Should comply by a yellow or orange-yellow precipitate formation	1. A pale purple color flame develops. 2. After addition of sodium hydrogen tartarate TS a white crystalline precipitate is produced .The precipitate dissolves upon addition of any of ammonia TS/ NaOH TS/Sodium carbonate TS. 3.A yellow precipitate produced with addition of sodium hexanitrocobaltate (III) TS. 4. No odor of ammonia is evolved when an excess of sodium hydroxide TS is added and warmed
5	Appearance of solution	Passes The Test	Not mentioned	Sample solution should be clear and colourless	Sample solution should be clear and colorless
6	Arsenic	Not mentioned	Not mentioned	Not mentioned	NMT 2 ppm
7	Sodium	NMT 0.1%	Sample solution should not impart a pronounced yellow color to a nonluminous flame.	NMT 0.1%	No persistent, yellow color should develop.
8	Iron	NMT 0.002%	Not mentioned	NMT 20 ppm	Not mentioned
9	Iodide	NMT 0.005%	NMT 0.005%	The substance should not show blue colour.	No red-purple to purple color should develop in the chloroform layer.
10	Bromide	NMT 0.1%	NMT 0.1%	NMT 0.1%	No yellow to yellow-red color should develop in the chloroform layer
11	Sulfates	NMT 0.03%	Not mentioned	NMT 300 ppm	Not mentioned
12	Calcium and Magnesium	NMT 0.02%	No turbidity should be produced within 5 min.	Not mentioned	No turbidity should be produced
13	Magnesium & alkaline earth metals	Not mentioned	Not mentioned	The volume of 0.01 M sodium edetate required should be NMT 5.0 mL.	Not mentioned
14	Aluminium	NMT 0.0001%	Not mentioned	Not mentioned	Not mentioned
15	Heavy metals	Not mentioned	Not mentioned	Not mentioned	NMT 5 ppm
16	Acidity or Alkalinity	Passes The Test	After addition of 0.30 mL of 0.020 N NaOH, a pink color should be produced.	NMT 0.5 mL of 0.01 M HCL or 0.01 M NaOH is required to change the colour of the indicator.	After addition of 0.50 ml of 0.01 M NaOH, a red color should develop.
17	Loss on Drying	NMT 1.0%	NMT 1.0%	NMT 1.0%	NMT 0.5%
18	Assay (dried basis)	Between 99.0% and 100.5%	Between 99.0% and 100.5%	Between 99.0% and 101.0%	NLT 99.0%
	Elemental Impurities		Not mentioned	Not mentioned	Not mentioned
	Cd	NMT 0.5 ppm			

19	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				
20	Residual solvents	Passes The Test	Not mentioned	Not mentioned	Not mentioned
	Storage	Storage at room temperature	Preserve in well-closed containers	Not mentioned	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.