



# " clyzo " - Monograph Comparison



## AS PER CURRENT USP 2022/EP11/JP18

<b>Product Name</b>	Potassium Hydroxide 85% pellets (USP-NF, BP, Ph. Eur.) pure, pharma grade		<b>Issue Date</b>	March-23
<b>Product Code</b>	141515		<b>Prepared by</b>	Sr. Tech Lead
<b>CAS NO.</b>	1310-58-3		<b>Reviewed by</b>	Manager Technical
<b>Manufacturer Name</b>	PanReac AppliChem		<b>Version no.</b>	CLYZO/PAN/141515/01

Sr. No.	Test	Manufacturer COA	Pharmacopeial Specifications		
		Complies USP-NF, BP, Ph. Eur.	USP 2022	EP Version 11.0	JP 18
1	Description	White lumps , pellets or flakes , translucent , caustic , deliquescent , absorbs CO2 and moisture from the air	White or practically white, fused masses, or small pellets, or flakes, or sticks, or other forms. Is hard and brittle and shows a crystalline fracture. Exposed to air, it rapidly absorbs carbon dioxide and moisture, and deliquesces.	white or almost white, crystalline, hard masses, supplied as sticks, pellets or irregularly shaped pieces,deliquescent, absorbing CO2.	White or practically white, fused masses, or small pellets, or flakes, or sticks, or other forms. Hard, brittle and shows a crystalline fracture. Absorbs CO2 and deliquescent
2	Solubility	Soluble in water	Very soluble in boiling alcohol; freely soluble in water, in alcohol, and in glycerin	Very soluble in water, freely soluble in ethanol (96 %).	Freely soluble in water and in ethanol (95), and practically insoluble in diethyl ether.
3	Identification 1	passes test	pH of 0.1% solution should not be less than 10.5	pH of 0.01% solution should not be less than 10.5	Sample solution should be alkaline
4	Identification 2 Potassium	passes test	After addition of sodium bitartrate TS a white crystalline precipitate that is soluble in 6 N ammonium hydroxide and in solutions of alkali hydroxides and carbonates is formed	Should comply by a yellow or orange-yellow precipitate formation.	1. Produces purple colour flame 2. After addition of Sodium hydrogen tartarate, a white, crystalline precipitate is formed.3. After addition of sodium hexanitrocobaltate a yellow precipitate is formed. 4. Do not evolve odour of ammonia
5	Appearance of solution	passes test	Not mentioned	Sample solution should be clear and colourless	Sample solution should be clear and colourless
6	Insoluble substances	passes test	The Sample solution should be complete, clear, and colorless.	Not mentioned	Not mentioned
7	Sodium	NMT 1.0%	NMT 1.0%	NMT 1.0%	No persistent yellow color should develops during flame test
8	Heavy metals	Not mentioned	Not mentioned	Not mentioned	NMT 30 ppm
9	Potassium Carbonates/carbonates	NMT 1.0%	Not mentioned	NMT 2.0%	NMT 2.0%
10	Chlorides	NMT 0.005%	Not mentioned	NMT 200 ppm	NMT 0.05%
11	Phosphates	NMT 0.002%	Not mentioned	NMT 100 ppm	Not mentioned
12	Sulfates	NMT 0.005%	Not mentioned	NMT 200 ppm	Not mentioned
13	Iron	NMT 0.001%	Not mentioned	NMT 10 ppm	Not mentioned
14	Aluminium	NMT 0.002%	Not mentioned	NMT 0.2%	Not mentioned
15	Calcium	NMT 0.005%	Not mentioned	Not mentioned	Not mentioned
16	Magnesium	NMT 0.005%	Not mentioned	Not mentioned	Not mentioned
17	Assay (Total alkali, as KOH)	Between 85.0-100.5 %	NLT 85.0%	Between 85.0% and 100.5%	NLT 85%
18	Assay (potassium)	NLT 59.9%	NLT 59.9%	Not mentioned	Not mentioned
	Elemental impurities				
	Cd	NMT 0.5 ppm			
	Pb	NMT 5 ppm			
	As	NMT 1 ppm			

19	Hg	NMT 1.5 ppm	Not mentioned	Not mentioned	Not mentioned
	Co	NMT 5 ppm			
	V	NMT 10 ppm			
	Ni	NMT 20 ppm			
	TI	NMT 5 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 Solvent	Passes test	Not mentioned	Not mentioned	Not mentioned
	Storage	Room Temperature	Preserve in tight containers.	In an airtight, 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.