



" clyzo " - Monograph Comparison



AS PER CURRENT USP 2022/EP11/JP18

Product Name	Potassium Sorbate (BP, Ph. Eur.) pure, pharma grade		Issue Date	March-23
Product Code	141531		Prepared by	Sr. Tech Lead
CAS NO.	24634-61-5		Reviewed by	Manager Technical
Manufacturer Name	PanReac AppliChem		Version no.	CLYZO/PAN/141531/01

Sr. No.	Test	Manufacturer COA	Pharmacopeial Specifications		
		Complies BP, Ph. Eur	USP 2022	EP Version 11.0	JP 18
1	Description	White crystals or powder	White crystals or powder, having a characteristic odor. Melts at about 270°C, with decomposition	White or almost white powder or granules.	Product Not Official in Japanese Pharmacopoeia
2	Solubility	Freely soluble in water	Freely soluble in water; soluble in alcohol	Very soluble in water, slightly soluble in ethanol (96%)	
3	Identification 1	Passes The Test	Not mentioned	Sample solution should show maxima in the range 230 to 350 nm, at about 264 nm, specific absorbance at the maxima should be in between 1650 and 1900	
4	Identification 2	Passes The Test	The infrared absorption spectrum obtained with sample should be concordant with spectrum obtained with Potassium sorbate reference standard/working standard	The infrared absorption spectrum obtained with sample should be concordant with spectrum obtained with Potassium sorbate reference standard/working standard	
5	Identification 3	Passes The Test	Not mentioned	The residue obtained melts between 132 °C and 136 °C.	
6	Identification 4 Potassium	Passes The Test	Should comply by formation of a white crystalline precipitate that is soluble in 6 N ammonium hydroxide and in solutions of alkali hydroxides and carbonates	Should comply by a yellow or orange-yellow precipitate formation immediately.	
7	Acidity or alkalinity	Passes The Test	NMT 1.1 mL of 0.10 N NaOH or 0.80 ml of 0.10 N HCl is required.	NMT 0.25 mL of 0.1 M NaOH or 0.1 M HCl is required to change the colour of the indicator.	
8	Aldehyde	NMT 0.15%	NMT 0.15 %	NMT 0.15%	
9	Appearance of solution	Passes The Test	Not mentioned	Sample solution should be clear and not more intensely coloured than reference solution Y5	
10	Loss on drying	NMT 1.0%	NMT 1.0%	NMT 1.0%	
11	Assay (Potassium)	Not mentioned	Between 24.5% and 27.6%	Not mentioned	
12	Assay (dried basis)	Between 99.0% and 101.0%	Between 98.0% and 102.0 %	Between 99.0% and 101.0%	
13	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 1 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		
14	Residual solvents	Passes The Test	Not mentioned	Not mentioned
	Storage	Storage away from direct light.	Preserve in tight containers, protected from light, and avoid exposure to excessive heat.	Protected from light.

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.