



# " clyzo " - Monograph Comparison



## AS PER CURRENT USP 2022/EP11/JP18

<b>Product Name</b>	Sorbic Acid (BP, Ph. Eur.) pure, pharma grade		<b>Issue Date</b>	March-23
<b>Product Code</b>	141055		<b>Prepared by</b>	Sr. Tech Lead
<b>CAS NO.</b>	110-44-1		<b>Reviewed by</b>	Manager Technical
<b>Manufacturer Name</b>	PanReac AppliChem		<b>Version no.</b>	CLYZO/PAN/141055/01

Sr. No.	Test	Manufacturer COA	Pharmacopeial Specifications		
		Complies BP, Ph. Eur	USP 2022	EP Version 11.0	JP 18
1	Description	White crystalline powder	Free-flowing, white, crystalline powder, having a characteristic odor.	White or almost white, crystalline powder.	Product Not Official in Japanese Pharmacopoeia
2	Solubility	Slightly soluble in water	Soluble in alcohol and in ether; slightly soluble in water.	slightly soluble in water, freely soluble in ethanol (96 %).	
3	Identification 1	Passes The Test	Sample solution should show maxima at 254 +/- 2 nm	Sample should show maxima at 264 nm, specific absorbance at the maxima is between 2150 and 2550	
4	Identification 2	Passes The Test	The Infrared absorption spectrum obtained with sample should be concordant with spectrum obtained with Sorbic Acid reference standard/working standard.	The Infrared absorption spectrum obtained with sample should be concordant with spectrum obtained with Sorbic Acid reference standard/working standard.	
5	Identification 3	Passes The Test	Not mentioned	Sample should melt between 132°C and 136°C	
6	Identification 4	Passes The Test	Not mentioned	Sample solution should be discoloured by addition of bromine water	
7	Appearance of solution	Passes The Test	Not mentioned	Sample solution should be clear and colourless.	
8	Melting range	Between 132°C and 135°C	Between 132°C and 135°C	Not mentioned	
9	Aldehyde (As acetaldehyde)	NMT 0.15%	NMT 0.15%	NMT 0.15%	
10	Matter insoluble in ethanol	Passes The Test	Not mentioned	Not mentioned	
11	Water	NMT 0.5%	NMT 0.5%	NMT 1.0%	
12	Sulfate	NMT 0.005%	Not mentioned	Not mentioned	
13	Residue on ignition	NMT 0.2%	NMT 0.2%	Not mentioned	
14	Sulphated Ash	Not mentioned	Not mentioned	NMT 0.2%	
15	Assay (Anhydrous basis)	Between 99.0% and 101.0%	Between 98.0% and 102.0%	Between 99.0% and 101.0%	
16	Elemental Impurities		Not mentioned	Not mentioned	
	Cd	NMT 0.5 ppm			
	Pb	NMT 1.0 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		
17	Residual solvents	Passes The Test	Not mentioned	Not mentioned
	Storage	Store away from direct sunlight	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.