



" clyzo " - Monograph Comparison



AS PER CURRENT USP 2022/EP11/JP18

Product Name	ortho-Phosphoric Acid 85% (USP-NF, BP, Ph. Eur.) pure, pharma grade		Issue Date	March-23
Product Code	141032		Prepared by	Sr. Tech Lead
CAS NO.	7664-38-2		Reviewed by	Manager Technical
Manufacturer Name	PanReac AppliChem		Version no.	CLYZO/PAN/141032/01

Sr. No.	Test	Pharmacopeial Specifications			
		Manufacturer COA <i>Complies USP, BP, Ph. Eur</i>	USP 2022	EP Version 11.0	JP 18
1	Description	Clear, colorless liquid, hygroscopic. Specific gravity about 1.71	Colorless, odorless liquid of syrupy consistency. Specific gravity about 1.71	Clear, colourless, syrupy liquid, corrosive.	Product Not Official in Japanese Pharmacopoeia
2	Solubility	Miscible with water	Miscible with water and with alcohol	Miscible with water & with ethanol (96 %)	
3	Identification 1	Passes The Test	1. After addition of AgNO3 TS, a yellow precipitate is formed that is soluble in 2 N HNO3 and in 6 N ammonium hydroxide. 2. After addition of ammonium molybdate TS, a yellow precipitate that is soluble in 6 N ammonium hydroxide is formed	1. A yellow precipitate should be formed whose colour should not be changed by boiling and which dissolves on addition of ammonia 2. A yellow colour should be developed	
4	Identification 2	Passes The Test	Not mentioned	Solution should be strongly acidic	
5	Appearance of solution	Passes The Test	Not mentioned	Sample solution should be clear and colorless	
6	Nitrate	Passes The Test	Blue color not discharged within 1 minute	Not mentioned	
7	Chlorides	NMT 0.005%	Not mentioned	NMT 50 ppm	
8	Sulfates	NMT 0.01%	No precipitate should be formed immediately	NMT 100 ppm	
9	Iron	NMT 0.005%	Not mentioned	NMT 50 ppm	
10	Alkali phosphates	Passes The Test	No turbidity should be produced	Not mentioned	
11	Phosphorous or hypophosphorous acid	Passes The Test	The mixture should not become brownish	The solution shows no change in appearance.	
12	Substances precipitated with ammonia	Passes The Test	Not mentioned	Any opalescence in the solution is not more intense than standard solution	
13	Assay	Between 85.0% and 88.0%	Between 85.0% and 88.0%	Between 84.0% and 90.0%	
14	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 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		
15	Residual solvents	Passes The Test	Not mentioned	Not mentioned
	Storage	Storage below 15°C.	Preserve in tight containers	Store in a glass container

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.