



" clyzo " - Monograph Comparison



AS PER CURRENT USP 2022/EP11/JP18

Product Name	Nitric Acid 69% (BP, Ph. Eur.) pure, pharma grade		Issue Date	March-23
Product Code	141037		Prepared by	Sr. Tech Lead
CAS NO.	7697-37-2		Reviewed by	Manager Technical
Manufacturer Name	PanReac AppliChem		Version no.	CLYZO/PAN/141037/01

Sr. No.	Test	Pharmacoepial Specifications			
		Manufacturer COA <i>Complies (BP, Ph. Eur.)</i>	USP 2022 <i>EP Version 11.0</i>		
1	Description	Clear, Colourless liquid	Highly corrosive fuming liquid, having a characteristic, highly irritating odor	Clear, colourless or almost colourless liquid Density at 20°C is between 1.384 and 1.416	Product Not Official in Japanese pharmacopoeia
2	Solubility	Miscible with water	Miscible with water	Miscible with water.	
3	Identification 1	Passes The Test	1.A brown color should be produced at the junction of the two liquid .2.Should evolve brownish-red fumes .3. Should not decolorize acidified potassium permanganate TS (distinction from nitrites).	The upper layer should be coloured deep violet.	
4	Appearance of solution	Passes The Test	Not mentioned	Sample should be clear and not more intensely coloured than reference solution Y6	
5	Clarity and colour	Passes The Test	The liquids are equally clear and free from suspended matter, and when viewed transversely by transmitted light, exhibit no apparent difference in color.	Not mentioned	
6	Chlorides	NMT 0.00005%	NMT 0.5 ppm	NMT 0.5 ppm	
7	Sulfate	NMT 0.0001%	NMT 1 ppm	NMT 2 ppm	
8	Heavy metals (as Pb)	NMT 0.00002%		NMT 2 ppm	
9	Arsenic	Not mentioned		NMT 0.02 ppm	
10	Iron	NMT 0.0010 %	NMT 0.2 ppm	NMT 1 ppm	
11	Sulfated ash	Not mentioned		NMT 0.001%	
12	Residue on Ignition (as SO4)	NMT 0.0005 %	NMT 0.0005%	Not mentioned	
13	Assay (Acidim.)	Between 68.0 % and 70.0%	Between 69.0% and 71.0%	Between 63.0% and 70.0%	
14	Elemental Impurities		Not mentioned	Not mentioned	
	Cd	NMT 0.5 ppm			
	Pb	NMT 0.2 ppm			
	As	NMT 0.01 ppm			
	Hg	NMT 1.5 ppm			
	CO	NMT 5 ppm			
	V	NMT 10 ppm			
	Ni	NMT 20 ppm			
	TI	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			
15	Residual solvents (Ph.Eur)	Passes The Test	Not mentioned	Not mentioned	
	Storage	Storage away from direct light	Preserve in tight containers.	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.