



" clyzo " - Monograph Comparison



AS PER CURRENT USP 2022/EP11/JP18

Product Name	Hydrochloric Acid 10% w/w (USP-NF, Ph. Eur.) pure, pharma grade	 ITW Reagents	Issue Date	March-23
Product Code	143006		Prepared by	Sr. Tech Lead
CAS NO.	7647-01-0		Reviewed by	Manager Technical
Manufacturer Name	PanReac AppliChem		Version no.	CLYZO/PAN/143006/01

Sr. No.	Test	Manufacturer COA		Pharmacopeial Specifications	
		Complies USP-NF, Ph. Eur.	USP 2022	EP Version 11.0	JP 18
1	Description	Clear Colourless Liquid	Colorless, odorless liquid. Specific gravity is about 1.05.	Product Not Official in European Pharmacopoeia	Colorless liquid. It is odorless and has a strong acid taste. Specific gravity at 20°C is about 1.05
2	Solubility	Miscible with water	Not Mentioned		Not Mentioned
3	Identification 1	passes test	After addition of silver nitrate TS, should develop a white, curdy precipitate which is insoluble in HNO ₃ but is soluble in a slight excess of 6 N NH ₄ OH		1. Should change blue litmus paper to red 2. After addition of silver nitrate TS, should develop a white, curdy precipitate which is insoluble in HNO ₃ but is soluble in a slight excess of 6 N NH ₄ OH. 3. The gas evolved should turn moistened potassium iodide starch paper blue
4	Appearance of the substance	passes test	Not Mentioned		Not Mentioned
5	Bromide or Iodide	NA	The chloroform should remain free from even a transient yellow, orange, or violet color.		The chloroform layer should remain colorless
6	Free chlorine	0.0001 %	Not Mentioned		Not Mentioned
7	Free Bromine or Chlorine	passes test	The chloroform should remain free from any violet color for at least 1 minute.		Chloroform layer should remain free from a purple color.
8	Non-volatile matter	0.01%	Not Mentioned		Not Mentioned
9	Residue on Ignition	0.01 %	NMT 0.01%		NMT 0.01%
10	Arsenic	Not mentioned	Not Mentioned		NMT 0.5 ppm
11	Mercury	Not mentioned	Not Mentioned		NMT 0.01 ppm
12	Heavy Metals	Not mentioned	Not Mentioned		NMT 3 ppm
13	Sulfate	NMT 0.0005%	Neither turbidity nor precipitate should appear within 1 hour		No Turbidity should be produced
14	Sulfite	passes test	Neither turbidity nor decolorization of the iodine should occur.		The color of Iodine TS should not disappear.
15	Assay (w/v)	Between 9.5% and 10.5%	Between 9.5% and 10.5%		Between 9.5 w/v % and 10.5 w/v %
16	Residual solvent (Ph.Eur/USP)	passes test	Not Mentioned		Not Mentioned
	Elemental impurities (ICH Q3D):				
	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			

17	Tl	NMT 0.8 ppm	Not Mentioned	Not Mentioned
	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		
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from moisture. Store	Preserve in tight containers.	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.