



" clyzo " - Monograph Comparison



AS PER CURRENT USP 2022/EP11/JP18

Product Name	Acetic Acid glacial (USP, BP, Ph. Eur., JP) pure, pharma grade		Issue Date	March-23
Product Code	141008		Prepared by	Sr. Tech Lead
CAS NO.	64-19-7		Reviewed by	Manager Technical
Manufacturer Name	PanReac AppliChem		Version no.	CLYZO/PAN/141008/01

Sr. No.	Test	Pharmacopeial Specifications			
		Manufacturer COA <i>Complies USP, BP, Ph. Eur., JP</i>	USP 2022	EP Version 11.0	JP 18
1	Description	Liquid, hygroscopic	Clear, colorless liquid, having a pungent, characteristic odor and, when well diluted with water, an acid taste. Boils at about 118°C. Specific gravity about 1.05	Crystalline mass or clear, colourless, volatile liquid.	Clear, colorless, volatile liquid, or colorless or white, crystalline masses. It has a pungent, characteristic odor. Boiling point: about 118°C. Specific gravity @ 20°C about 1.049
2	Solubility	Miscible with water	Miscible with water, with alcohol, and with glycerin.	Miscible with water, with ethanol (96 %) and with methylene chloride.	Miscible with water, with ethanol (95) and with diethyl ether.
3	Identification 1	Passes The Test	1. Should comply by a dark color development or a blue precipitate formation 2. After addition of ferric chloride TS a red color should be produced which is destroyed by the addition of mineral acids.	The solution should be strongly acidic	Should comply by turning blue litmus paper to red,
4	Identification 2	Passes The Test	Not mentioned	Should comply by precipitate formation or a dark blue colour development	1. After warming with diluted H2SO4 (50%) should evolve the odor of acetic acid. (2) When warmed with H2SO4 and a small quantity of ethanol (95), the odor of ethyl acetate should evolved.(3) After addition of ferric chloride TS, should produce a red-brown precipitate.
5	Appearance	Passes The Test	Not mentioned	Sample should be clear and colourless	Not mentioned
6	Readily Oxidizable Substances/reducing substances	Passes The Test	The pink color should not changed to brown within 2 hours.	The colour should remains pink	The red color should not disappear within 30 minutes.
7	Congealing Temperature/Freezing point	NLT 15.6°C	NLT 15.6°C	NLT 14.8 °C	NLT 14.5 °C
8	Heavy Metals	NMT 0.001%	Not mentioned	Not mentioned	NMT 10 ppm
9	Chloride	NMT 0.001%	No Opalescence should be produced.	NMT 25 ppm	No Opalescence should be produced.
10	Sulfate	NMT 0.001%	No Turbidity should be produced.	NMT 50 ppm	No Turbidity should be produced.
11	Iron	NMT 0.0005%	Not mentioned	NMT 5 ppm	Not mentioned
12	Nonvolatile Residue	NMT 0.5%	NMT 0.005%	NMT 0.01%	NMT 0.01%
13	Matter insoluble in water	NMT 0.005%	Not mentioned	Not mentioned	Not mentioned
14	Aldehyde		Not mentioned	Not mentioned	Not mentioned
15	Assay	Between 99.50 % and 100.5%	Between 99.50 % and 100.5%	Between 99.0 % and 100.5%	NLT 99.9% of
16	Assay (Dried basis)	Between 98.0% and 102.0%	Between 98.0% and 102.0%	Not mentioned	NLT 98.0%
	Elemental Impurities		Not mentioned	Not mentioned	Not mentioned
	Cd	NMT 0.5 ppm			
	Pb	NMT 0.5 ppm			
	As	NMT 1 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			

17	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			
18	Residual solvents	Passes The Test	Not mentioned	Not mentioned	Not mentioned
	Storage	Store at room temperature away from oxidizing substances and metals. Keep container tightly sealed. Protect from heat and direct sunlight.	Preserve in tight containers, and store at room temperature.	Airtight 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.