



" clyzo " - Monograph Comparison



AS PER CURRENT USP 2022/EP11/JP18

Product Name	Chloral Hydrate (BP, Ph. Eur.) pure, pharma grade		Issue Date	March-23
Product Code	141975		Prepared by	Sr. Tech Lead
CAS NO.	302-17-0		Reviewed by	Manager Technical
Manufacturer Name	PanReac AppliChem		Version no.	CLYZO/PAN/141975/01

Sr. No.	Test	Pharmacopeial Specifications			
		Manufacturer COA <i>Complies BP, Ph. Eur.</i>	USP 2022	EP Version 11.0	JP 18
1	Description	White small crystals, hygroscopic. Melts at about 57°	Colorless, transparent, or white crystals having an aromatic, penetrating, and slightly acrid odor, and a slightly bitter, caustic taste. Melts at about 55°, and slowly volatilizes when exposed to air.	colourless, transparent crystals	Colorless crystals. It has a pungent odor and an acrid, slightly bitter taste. It slowly volatilizes in air
2	Solubility	Miscible with ethanol	Very soluble in water and in olive oil; freely soluble in alcohol, in chloroform, and in ether	very soluble in water, freely soluble in ethanol (96 per cent).	Very soluble in water, and freely soluble in ethanol (95) and in diethyl ether
3	Identification 1	Passes test	A blue color should develop	The mixture should become cloudy and, when heated, gives off an odour of chloroform	The turbidity should be produced and separates into two clear layers by warming
4	Identification 2	Passes test	Not mentioned	A yellow colour should develop which quickly becomes reddish-brown. On standing for a short time, a red precipitate may be formed	The disagreeable odor of phenylisocyanide (poisonous) should be perceptible
5	Acidity	Not mentioned	Should not turn blue litmus paper to red	Not mentioned	A yellow color should develop
6	Appearance of solution	passes test	Not mentioned	Sample solution should be clear and colorless	Sample solution should be clear and colorless
7	Chloride	NMT 0.01%	NMT 0.007%	NMT 100 ppm	NMT 0.011%
8	Insoluble matter in water	passes test	Not mentioned	Not mentioned	Not mentioned
9	pH	Between 3.5 and 5.5	Not mentioned	Between 3.5 and 5.5	Not mentioned
10	Non-Volatile Matter	NMT 0.1%	Not mentioned	NMT 0.1%	Not mentioned
11	Readily carbonisable substances	Not mentioned	Sample solution should be not more colored than Matching Fluid P	Not mentioned	Not mentioned
12	Darkened substances by H2SO4	Passes test			
13	Chloral alcoholate	passes test	Not mentioned	No precipitate should be formed	No yellow precipitate should be produced
14	Heavy Metals	0.002%	Not mentioned	Not mentioned	
15	Benzene	Not mentioned	Not mentioned	Not mentioned	No odor of benzene should be perceptible
16	Residue on Ignition	Not mentioned	NMT 0.1%	Not mentioned	NMT 0.1%
17	Assay	Between 98.5 % and 101.0 %	Between 99.5 % and 102.5 %	Between 98.5 % and 101.0 %	NLT 99.5%
18	Residual Metals				
	Pt	NMT 10 ppm			
	Pd	NMT 10 ppm			
	Ir	NMT 10 ppm			

	Rh	NMT 10 ppm	Not mentioned	Not mentioned	Not mentioned
	Os	NMT 10 ppm			
	Mo	NMT 25 ppm			
	Ni	NMT 25 ppm			
	Cr	NMT 25 ppm			
	V	NMT 25 ppm			
	Cu	NMT 250 ppm			
	Mn	NMT 250 ppm			
	Fe	NMT 1300 ppm			
	Zn	NMT 1300 ppm			
19	Residual Solvent	Passes test	Not mentioned	Not mentioned	Not mentioned
	Storage	Keep containers tightly closed in a dry, cool & well-ventilated place. Keep out of the reach of children.	Preserve in Tight containers.	Air tight containers	Tight containers
<p>Note - If you need any additional testing, you may use our Additional Testing Feature on the product page or contact your Clyzo representative.</p>					
<p>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.</p>					