



# " clyzo " - Monograph Comparison



## AS PER CURRENT USP 2022/EP11/JP18

<b>Product Name</b>	Dichloromethane stabilized with ~ 20 ppm of amylene (USP-NF, BP, Ph. Eur.) pure, pharma grade		<b>Issue Date</b>	March-23
<b>Product Code</b>	141254		<b>Prepared by</b>	Sr. Tech Lead
<b>CAS NO.</b>	75-09-2		<b>Reviewed by</b>	Manager Technical
<b>Manufacturer Name</b>	PanReac AppliChem		<b>Version no.</b>	CLYZO/PAN/141254/01

Sr. No.	Test	Pharmacopeial Specifications			
		Complies USP-NF, BP, Ph. Eur.	USP 2022	EP Version 11.0	JP 18
1	Description	Clear, colorless liquid,	Clear, colorless, mobile liquid, having an odor resembling that of chloroform.	Clear, colourless, volatile liquid	Product Not Official in Japanese Pharmacopoeia
2	Solubility	Soluble in water	Miscible with alcohol, with ether, and with fixed and volatile oils.	Sparingly soluble in water, miscible with ethanol (96%)	
3	Identification 1	Passes The Test	The IR absorption spectrum of the vapor shows strong doublet peaks at 7.8 and 7.9 μm and at 13.2 and 13.4 μm, and relatively few minor peaks.	The infrared absorption spectrum obtained with sample should be concordant with spectrum obtained with Methylene chloride reference/ working standard	
4	Identification 2	Passes The Test	Not mentioned	Should comply by relative density test	
5	Identification 3	Passes The Test	Not mentioned	Should comply by refractive index test	
6	Identification 4	Passes The Test	Not mentioned	Should comply by violet color formation	
7	Identification 5	Passes The Test	Not mentioned	After acidifying of sample with dilute HNO3 and add 0.4 ml AgNO3 solution a curdled, white precipitate should be formed.	
8	Appearance	Passes The Test	Not mentioned	Sample should be clear and colorless	
9	Acidity	NMT 0.001%	Not mentioned	NMT 0.15 ml of 0.1 M NaOH is required to change the colour of the indicator to blue.	
10	Refractive index	Between 1.423 and 1.425	Not mentioned	Between 1.423 and 1.425	
11	Ethanol, 2-methylbut-2-ene and volatile impurities	Ethanol: NMT 0.5% 2-methylbut-2-ene: NMT 0.03% Impurity A: NMT 0.001% Impurity B: NMT 0.005% Sum of impurities other than ethanol and 2-methylbut-2-ene: NMT 0.1%	Not mentioned	Ethanol: NMT 2.0% 2-methylbut-2-ene: NMT 300 ppm Impurity A: NMT 10 ppm Impurity B: NMT 50 ppm Sum of impurities other than ethanol and 2-methylbut-2-ene: NMT 0.1%	
12	Water	NMT 0.02%	NMT 0.02%	NMT 0.02%	
13	Hydrogen Chloride	NMT 0.0003%	NMT 0.001%	Not mentioned	
14	Specific gravity/relative density	Between 1.318 and 1.322 (at 25°C) Between 1.320 and 1.332 (at 20°C)	Between 1.318 and 1.322	Between 1.320 and 1.332	
15	Nonvolatile residues	NMT 0.002%	NMT 0.002%	NMT 20 ppm	
16	Free chloride	Passes The Test	The lower layer does not show a violet tint	No blue color should be developed	
17	Assay	NLT 99.5%	NLT 99.0%	Not mentioned	
18	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 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		
19	Residual solvents	Passes The Test	Not mentioned	Not mentioned
	Storage	Storage below 15°C.	Preserve in tight containers.	In an airtight container, 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.