

## " clyzo " - Monograph Comparison





	AS PER CURRENT USP 2022/EP11/JP18								
	Product Name	Glycerol 99% USP, Ph. Eur.		Issue Date	July-23				
	Product Code	240106	CG	Prepared by	Sr. Tech Lead				
	CAS NO.	56-81-5	CROUP	Reviewed by	Manager Technical				
	Manufacturer Name	CG Chemikalein GmbH & Co KG	GROUP	Version no.	CLYZO/CG/240106/01				
Sr. No.	Test	Manufacturer COA	Pharmacopeial Specifications						
		Complies USP, Ph. Eur.	USP 2022	EP Version 11.0	JP 18				
1	Descriprion	Colorless or almost colorless, clear liquid	Clear, colorless, syrupy liquid, having a sweet taste. Has not more than a slight characteristic odor, which is neither harsh nor disagreeable. It is hygroscopic. Its solutions are neutral to litmus.	Clear, colourless or almost colourless, very hygroscopic, syrupy liquid, unctuous to the touch.	Clear, colorless and viscous liquid. It has a sweet taste. It has a sweet taste.				
2	Solubility	Not mentioned	Insoluble in chloroform, in ether, and in fixed and volatile oils. Miscible with water and with alcohol.	Miscible with water and with ethanol (96 %), slightly soluble in acetone, practically insoluble in fatty oils and in essential oils.	It is miscible with water and with ethanol (99.5).				
3	Identification 1	Should comply the test	The Infrared absorption spectrum obtained with sample should be concordant with spectrum obtained with Glycerine reference standard/working standard	The Infrared absorption spectrum obtained with sample should be concordant with spectrum obtained with Glycerine reference standard/working standard	The Infrared absorption spectrum obtained with sample should be concordant with spectrum obtained with Glycerine reference standard/working standard				
4	Identification 2	Not mentioned	Ethylene Glycol: NMT 0.1% Diethylene Glycol: NMT 0.1%	Should comply by refractive index test	Not mentioned				
5	Identification 3	Should comply the test	In ethylene & diethylene glycol test the retention time of the glycerin peak of the Sample solution corresponds to that obtained in the Standard solution	Relative density should be between 1.258 and 1.268	Not mentioned				
6	Appearance/Colour of Solution	Sample should be clear and colorless	Sample solution should not be darker than standard	Sample solution should be clear and colourless	Sample should not be more coloured than control solution.				
7	Acidity/Alkalinity	NMT 0.2 ml of 0.1 M NaOH is required to change the colour of the indicator to pink.	Not mentioned	NMT 0.2 ml of 0.1 M NaOH is required to change the colour of the indicator to pink.	The solution should be neutral.				
8	Refractive index	Between 1.470 and 1.475.	Not mentioned	Between 1.470 and 1.475.	NLT 1.470				
9	Specific Gravity	NLT 1.249	NLT 1.249	Not mentioned	NLT 1.258				
10	Related Compounds	Total impurities: NMT 0.5%	Maximum individual impurity: NMT 0.1% Total impurities: NMT 1.0%	Impurity A: NMT 0.1% Any other impurity: NMT 0.1% Total impurities: NMT 0.5%	Ethylene Glycol: NMT 0.1% Diethylene Glycol: NMT 0.1% Any other impurity: NMT 0.1% Total impurities: NMT 1.0%				
11	Fatty Acid and Esters	Not mentioned	NMT 1 ml of 0.5 N NaOH should be consumed.	Not mentioned	NMT 3.0 ml of 0.1 M NaOH should be consumed				
12	Aldehydes	NMT 10 ppm	Not mentioned	NMT 10ppm	Not mentioned				
13	Esters	NLT 8.0 ml of 0.1 M HCl is required to change the colour of the indicator.	Not mentioned	NLT 8.0 ml of 0.1 M HCl is required to change the colour of the indicator.	Not mentioned				
14	Rsidue on Ignition	NMT 0.01%	NMT 0.01%	Not mentioned	NMT 0.01%				
15	Sulfated ash	Not mentioned	Not mentioned	NMT 0.01%	Not mentioned				
16	Chloride	NMT 10 ppm	NMT 10ppm	NMT 10ppm	NMT 10ppm				
17	Sulfate	NMT 20 ppm	NMT 20ppm	Not mentioned	NMT 20ppm				
18	Ammonium	Not mentioned	Not mentioned	Not mentioned	The gas evolved should not change moistened red litmus paper to blue				
19	Chlorinated /Halogenated Compound	NMT 35 ppm	NMT 30 PPM	NMT 35 PPM	Not mentioned				
20	Readily carbonizable substances	Not mentioned	Not mentioned	Not mentioned	The solution should not bemore color than Matching Fluid H.				
21	Heavy metals	NMT 5 ppm	Not mentioned	Not mentioned	NMT 5ppm				
22	Calcium	Not mentioned	Not mentioned	Not mentioned	The solution should remains unchanged.				
23	Arsenic	Not mentioned	Not mentioned	Not mentioned	NMT 2 ppm				

24	Acrolein, glucose, and other reducing	Should comply the test	Not mentioned	The solution remains blue and no precipitate is	The color of the solution should not change,		
	substances/Sugars			formed.	and no turbidity should be produced.		
25	Water	NMT 2.0%	NMT 5.0%	NMT 2.0%	NMT 2.0%		
26	Assay (anhydrous basis)	Between 99.0% and 101.0%	Between 99.0% and 101.0%	Between 98.0% and 101.0%	Between 98.0% and 101.0%		
27	Microbial limit test Total aerobic microbial count Total yeast and molds count E.Coli Pseudomonas aerugonisa Staphylococcus aureus Salmonella	NMT 100 CFU/g NMT 50 cfu/g Absent/g Absent/g Absent/g Absent/g	Not mentioned	Not mentioned	Not mentioned		
28	Bacterial Endotoxins	NMT 10 IU/g	Not mentioned	Not mentioned	Not mentioned		
	Storage	Not mentioned	Preserve in tight containers	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 reprensentive.							

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.