

" clyzo " - Monograph Comparison





	AS PER CURRENT USP 2022/EP11/JP18								
	Product Name	Glycerol (USP, BP, Ph. Eur.) pure, pharma grade	PanReac 🌮 AppliChem	Issue Date	March-23				
-	Product Code	141339	Pankeac 💝	Prepared by	Sr. Tech Lead				
	CAS NO.	56-81-5	∆nnliChem	Reviewed by	Manager Technical				
	Manufacturer Name	PanReac AppliChem	TIM Pagante	Version no.	CLYZO/PAN/141339/01				
			HW heagetts						
Sr. No.	Test	Manufacturer COA	Pharmacopeial Specifications						
J 140.		Complies USP, BP, Ph. Eur	USP 2022	EP Version 11.0	JP 18				
1	Descriprion	Clear, colorless viscous liquid, hygroscopic.	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	Miscible with water.	alcohol.	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(FTIR)	Passes 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 (Limit of Diethylene Glycol and Ethylene Glycol) GC Chromatography	Passes The Test	Ethylene Glycol: NMT 0.1% Diethylene Glycol: NMT 0.1%	Should comply by refractive index test	Not mentioned				
5	Identification 3	Passes 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	Passes The Test	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	Passes The Test	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 (at 25°C) Between 1.258 and 1.268 (at 20°C)	NLT 1.249	Not mentioned	NLT 1.258				
10	Related Compounds		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	NMT 0.002%	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 0.001%	Not mentioned	NMT 10ppm	Not mentioned				
13	Esters	Passes The Test	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				

17 S			NMT 10ppm	NMT 10ppm	NMT 10ppm
	Sulfate				
18 A		NMT 0.002%	NMT 20ppm	Not mentioned	NMT 20ppm
, ,	Ammonium	NMT 0.001%	Not mentioned	Not mentioned	The gas evolved should not change moistened
					red litmus paper to blue
19 C	Chlorinated /Halogenated Compound	NMT 0.003%	NMT 30 PPM	NMT 35 PPM	Not mentioned
20 R	Readily carbonizable substances	Not mentioned	Not mentioned	Not mentioned	The solution should not bemore color than
<u> </u>					Matching Fluid H.
	,	Not mentioned	Not mentioned	Not mentioned	NMT 5ppm
	Calcium	Not mentioned	Not mentioned	Not mentioned	The solution should remains unchanged.
		Not mentioned	Not mentioned	Not mentioned	NMT 2 ppm
	Color	Passes The Test	Not mentioned	Not mentioned	Not mentioned
	, 0 ,	Passes 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.
			NMT 5.0%	NMT 2.0%	NMT 2.0%
27 A	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%
	Elemental Impurities		Not mentioned	Not mentioned	Not mentioned
C	Cd	NMT 0. 5 ppm			
<u> </u>	Pb	NMT 0.5 ppm			
Α	As	NMT 1.5 ppm			
ı E	Hg	NMT 1.5 ppm			
<u>c</u>	0	NMT 5 ppm			
v	V	NMT 10 ppm			
l N	Ni	NMT 20 ppm			
Т	П	NMT 0.8 ppm			
Α	Au	NMT 10 ppm			
P	Pd	NMT 10 ppm			
<u>l</u> r	r	NMT 10 ppm			
28 C	Os	NMT 10 ppm			
l P	Rh	NMT 10 ppm			
l R	Ru	NMT 10 ppm			
S	Se	NMT 15 ppm			
Α	Αg	NMT 15 ppm			
ı P	Pt	NMT 10 ppm			
į L	Li	NMT 55 ppm			
S	Sb	NMT 120 ppm			
l B	За	NMT 140 ppm			
ı .	Mo	NMT 25 ppm			
l —		NMT 250 ppm			
<u> </u>		NMT 600 ppm			
		NMT 25 ppm			
29 R		• • • • • • • • • • • • • • • • • • • •	Not mentioned	Not mentioned	Not mentioned
			Preserve in tight containers	Airtight containers	Tight containers
	5.co. ugc			- 0	0

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.