

" clyzo " - Monograph Comparison





		AS	PER CURRENT USP 2022/EP11,	/JP18	
	Product Name	Tween ® 20 (USP-NF, BP, Ph. Eur.) pure, pharma grade	– PanReac 🌼	Issue Date	March-23
	Product Code CAS NO. Manufacturer Name	142312 9005-64-5 PanReac AppliChem	AppliChem	Prepared by Reviewed by Version no.	Sr. Tech Lead Manager Technical CLYZO/PAN/142312/01
r. No.	Test	Manufacturer COA	Pharmacopeial Specifications		
		Complies USP, BP, Ph. Eur	USP 2022	EP Version 11.0	JP 18
1	Description	Clear yellow to brownish liquid	Lemon to amber liquid having a faint characteristic odor	Oily, yellow or brownish-yellow, clear or slightly opalescent liquid. Relative density about 1.1, viscosity about 400 mPa·s@ 250C	
2	Solubility	Soluble in water	Soluble in water, in alcohol, in ethyl acetate, in methanol, and in dioxane; insoluble in mineral oil	Soluble in water, in anhydrous ethanol, in ethyl acetate and in methanol, practically insoluble in fatty oils and in liquid paraffin.	
3	Identification 1	Passes The Test	The Infrared absorption spectrum obtained with sample should be concordant with spectrum obtained with Polysorbate 20 reference standard/working standard.	The Infrared absorption spectrum obtained with sample should be concordant with spectrum obtained with Polysorbate 20 reference standard/working standard.	
4	Identification 2	Passes The Test	Should comply by fatty acid composition	Should comply by hydroxyl value	1
5	Identification 3	Passes The Test	Not mentioned	Should comply by saponification test	1
6	Identification 4	Passes The Test	Not mentioned	Should comply by fatty acid composition	
7	Identification 5	Passes The Test	Not mentioned	Sample solution should be clear and colourless	
8	Acid value	NMT 2.0	NMT 2.0	NMT 2.0	
9	Hydroxyl value	Between 96 and 108	Between 96 and 108	Between 96 and 108	
10	Peroxide value	NMT 10.0	NMT 10.0	NMT 10.0	
11	Saponification value	Between 40 and 50	Between 40 and 50	Between 40 and 50	
12	Residue on ignition	NMT 0.2%	Not mentioned	Not mentioned	
13	Total ash	NMT 0.25%	NMT 0.25%	NMT 0.25%	
14	Reducing impurities	Passes The Test	Not mentioned	Not mentioned	
15	Heavy metals	NMT 0.001%	Not mentioned	Not mentioned	
16	Ethylene oxide	NMT 0,.0001%	NMT 1 ppm	NMT 1 ppm	
17	Dioxane	NMT 0.001%	NMT 10 ppm	NMT 10 ppm	
18	Water	NMT 3.0%	NMT 3.0%	NMT 3.0%	_
19	Composition of fatty acids	1)Caproic acid: NMT 1.0 per cent 2)Caprylic acid: NMT 10.0 per cent 3) Capric acid: NMT 10.0 per cent 4) Lauric acid: 40.0 per cent to 60.0 per cent 5)myristic acid: 41.0 per cent to 25.0 per cent 6) palmitic acid: 7.0 per cent to 15.0 per cent 7) stearic acid: NMT 7.0 per cent 8) oleic acid: NMT 11.0 per cent 9) Linoleic acid: NMT 3.0%	1) C6 no double bond-NMT 1.0% 2) C8 no double bond-NMT 10.0% 3) C10 no double bond-NMT 10.0% 4) C12 no double bond- Between 40.0-60.0% 5) C14 no double bond- Between 14.0-25.0% 6) C16 no double bond-7.0-15.0% 7) C18 no double bond-NMT 11.0% 8) C18 with 1 double bond-NMT 11.0% 9) C18 with 2 double bond-NMT 3.0%	1)Caproic acid: NMT 1.0 per cent 2)Caprylic acid: NMT 10.0 per cent 3) Capric acid: maximum 10.0 per cent 4) Lauric acid: 40.0 per cent to 60.0 per cent 5)myristic acid: 14.0 per cent to 25.0 per cent 6) palmitic acid: 7.0 per cent to 15.0 per cent 7) stearic acid: NMT 7.0 per cent 8) oleic acid: NMT 11.0 per cent 9) Linoleic acid: NMT 3.0%	Product Not Official in Japanese Pharmacopoeia
			5/ C10 Will 2 double bolld 1991 5.070	5/ Emoicie acia. WWT 5.070	4
	Elemental Impurities				
	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	
CO NMT 5 ppm	
V NMT 10 ppm	
Ni NMT 20 ppm	
TI NMT 5 ppm	
Au NMT 10 ppm	
Pd NMT 10 ppm	
Ir NMT 10 ppm	
20 Os NMT 10 ppm Not mentioned Not mentioned	
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	
21 Residual solvents Passes The Test Not mentioned Not mentioned	
Storage away from direct light. Preserve in tight containers, protected from In an airtight container, protected from In airtight conta	
Storage In an airtight container, protected from light.	
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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.