




# " clyzo " - Monograph Comparison



## AS PER CURRENT USP 2022/EP11/JP18

Sr. No.	Test	Manufacturer COA		Pharmacopeial Specifications	
		Complies USP-NF, BP, Ph. Eur.	USP 2022	EP Version 11.0	JP 18
	<b>Product Name</b>	Benzyl Alcohol (USP-NF, BP, Ph. Eur.) pure, pharma grade		<b>Issue Date</b>	March-23
	<b>Product Code</b>	141081		<b>Prepared by</b>	Sr. Tech Lead
	<b>CAS NO.</b>	100-51-6		<b>Reviewed by</b>	Manager Technical
	<b>Manufacturer Name</b>	PanReac AppliChem		<b>Version no.</b>	CLYZO/PAN/141081/01
1	Description	Clear colorless liquid	Clear, colorless, oily liquid. Boils at about 206°C, without decomposition. It is neutral to litmus. The specific gravity is between 1.042 and 1.047.	clear, colourless, oily liquid. Relative density between 1.043 and 1.049.	Clear, colorless oily liquid. Specific gravity @ 200C is between 1.043 and 1.049
2	Solubility	Soluble in water	Freely soluble in 50% alcohol; sparingly soluble in water. Miscible with alcohol, with ether, and with chloroform.	soluble in water, miscible with ethanol (96 %) and with fatty and essential oils.	It is miscible with ethanol (95), with fatty oils and with essential oils. It is soluble in water
3	Identification 1(FTIR)	Passes test	The Infrared absorption spectrum obtained with sample should be concordant with spectrum obtained with Benzyl Alcohol reference standard/working standard	The Infrared absorption spectrum obtained with sample should be concordant with spectrum obtained with Benzyl Alcohol reference standard/working standard	The Infrared absorption spectrum obtained with sample should be concordant with spectrum obtained with Benzyl Alcohol reference standard/working standard
4	Clarity & colour of Solution	Passes test	The Sample solution shows the same clarity as that of water, or its opalescence is not more pronounced than that of	The solution is clear and colourless	Sample solution should be clear and colorless
5	Density	Between 1.043 and 1.049	Not mentioned	Not mentioned	Not mentioned
6	Halogenated compounds	NMT 0.03%	Not mentioned	Not mentioned	Not mentioned
7	Matter insoluble in water	Passes test	Not mentioned	Not mentioned	Not mentioned
8	Refractive Index @20°C	Between 1.539 and 1.541	Between 1.538 and 1.541.	Between 1.538 and 1.541.	Between 1.538 and 1.541.
9	Peroxide value	NMT 5.0%	NMT 5	NMT 5	NMT 5.0
10	Acidity	Passes test	NMT 1.0 ml of 0.1M NaOH is required to change the color of the indicator to pink.	NMT 1.0 ml of 0.1M NaOH is required to change the color of the indicator to pink.	NMT 1.0 ml of 0.1 M NaOH is required
11	Organic Impurities	Benzaldehyde: NMT 0.15% Cyclohexylmethanol: NMT 0.10% Sum of any peak with a RRT less than that of Benzyl Alcohol: NMT 0.04% Sum of any peak with a RRT greater than that of Benzyl Alcohol: NMT 0.30%	Benzaldehyde: NMT 0.15% Cyclohexylmethanol: NMT 0.10% Sum of any peak with a RRT less than that of Benzyl Alcohol: NMT 0.04% Sum of any peak with a RRT greater than that of Benzyl Alcohol: NMT 0.30%	Benzaldehyde: NMT 0.15% Cyclohexylmethanol: NMT 0.1% Sum of any peak with a RRT less than that of Benzyl Alcohol: NMT 0.04% Sum of any peak with a RRT greater than that of Benzyl Alcohol: NMT 0.30%	Benzaldehyde: NMT 0.15% Cyclohexylmethanol: NMT 0.10% Sum of any peak with a RRT less than that of Benzyl Alcohol: NMT 0.04% Sum of any peak with a RRT greater than that of Benzyl Alcohol: NMT 0.30%
12	Residue on Evaporation	NMT 0.05%	NMT 0.05%	NMT 0.05%	NMT 0.05%
13	Water	NMT 0.2%			
14	Assay	Between 98.0% and 100.5%	Between 98.0 % and 100.5 %	Between 98.0 % and 100.5 %	Between 98.0 % and 100.5 %
	Elemental impurities				
	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			

15	Ni	NMT 20 ppm	Not mentioned	Not mentioned	Not mentioned
	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				
16	Residual Solvent	Passes test	Not mentioned	Not mentioned	Not mentioned
	Storage	Storage between +2 and +8°C . Storage away from direct light.	Preserve in tight containers, protected from	In an airtight container, under nitrogen, protected from light and at a temperature between 2 °C and 8 °C	Light resistant, tight containers
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.					