



" clyzo " - Monograph Comparison



AS PER CURRENT USP 2022/EP11/JP18

Product Name	Light liquid Paraffin (USP-NF, BP, Ph. Eur.) pure, pharma grade		Issue Date	March-23
Product Code	146257		Prepared by	Sr. Tech Lead
CAS NO.	8042-47-5		Reviewed by	Manager Technical
Manufacturer Name	PanReac AppliChem		Version no.	CLYZO/PAN/146257/01

Sr. No.	Test	Manufacturer COA		Pharmacopeial Specifications	
		Complies USP-NF, BP, Ph. Eur.	USP 2022	EP Version 11.0	JP 18
1	Description	Not mentioned	Colorless, transparent, oily liquid, free, or practically free, from fluorescence. Is odorless and tasteless when cold, and develops not more than a faint odor of petroleum when heated.	Colourless, transparent, oily liquid, free from fluorescence in daylight	A clear, colorless oily liquid, nearly free from fluorescence. It is odorless and tasteless. Boiling point: above 300°C.
2	Solubility	Not mentioned	Soluble in volatile oils; insoluble in water and in alcohol. Miscible with most fixed oils, but not with castor oil.	Practically insoluble in water, slightly soluble in ethanol (96 per cent), miscible with hydrocarbons.	Freely soluble in diethyl ether, and practically insoluble in water and in ethanol (95).
3	Identification 1	Passes Test	The Infrared absorption spectrum obtained with sample should be concordant with spectrum obtained with Light Mineral oil reference standard/working standard	The Infrared absorption spectrum obtained with sample should be concordant with spectrum obtained with Light Mineral oil reference standard/working standard	It burns with a bright flame and the odor of paraffin vapor should be perceptible.
4	Identification 2	NA	Sample solution meets the test for Viscosity	The sample should meet with viscosity test	The odor of hydrogen sulfide should be perceptible.
5	Identification 3	NA	Not mentioned	The solution should become red	Not mentioned
6	Specific gravity	Between 0.810 and 0.875 (at 20°C) 0.818 and 0.880 (at 25°C) Between	Between 0.818 and 0.880 (at 25°C)	Between 0.810 and 0.875 (at 20°C)	Between 0.830 and 0.870 (at 20°C)
7	Dynamic Viscosity at 20°C	25-80 mPas	Not mentioned	Between 25 mPa·s to 80 mPa·s.	Not mentioned
8	Kinematic Viscosity at 40.0°C	Between 3.0 and 33.5 mm ² /s	Between 3.0 and 34.4 mm ² /s	Not mentioned	NMT than 37 mm ² /s
9	Odour	NA	Not mentioned	Not mentioned	No foreign odor should be perceptible
10	Arsenic	NA	Not mentioned	Not mentioned	NMT 2 ppm
11	Heavy metals	NA	Not mentioned	Not mentioned	NMT 10 ppm
12	Acidity & Alkalinity	Passes Test	The solution does not produce a pink color. NMT 1.0 mL of 0.01 N sodium hydroxide is required to produce a pink color.	NMT 0.1 mL of 0.1 M NaOH is required to change the colour of the indicator to pink.	After shaking with 0.20 mL of 0.02 M NaOH: a red color should develop
13	Readily carbonisable substance	Passes Test	The oil portion of the Sample may turn hazy, but it remains colorless or shows a slight pink or yellow color, and the acid portion of the Sample does not become darker than the Standard solution.	The lower layer is not more intensely coloured standard solution	Sulfuric acid layer has no more color than the control solution.
14	Polycyclic aromatic hydrocarbons	Passes Test	The absorbance at any wavelength in the range 260 to 350 nm is NMT one-third of the absorbance of the Standard solution.	At no wavelength between 260 nm and 420 nm does the absorbance of the test solution exceed one-third that of the reference solution at 275 nm.	Absorbance NMT 0.10 at the wavelength in the range 260 nm and 350 nm.
15	Solid paraffin	Passes Test	The Sample should be sufficiently clear	The liquid should be sufficiently clear.	The turbidity produced with sample solution, if any, should not be deeper than that of the control solution

16	Sulfur compounds	Passes Test	Sample solution does not produce dark brown color	Not mentioned	No dark brown colour develops
17	Elenemtal Impurities		Not mentioned	Not mentioned	Not mentioned
	Cd	0.5 ppm			
	Pb	0.5 ppm			
	As	1.5 ppm			
	Hg	1.5 ppm			
	Co	5 ppm			
	V	10 ppm			
	Ni	20 ppm			
	Tl	5 ppm			
	Au	10 ppm			
	Pd	10 ppm			
	Ir	10 ppm			
	Os	10 ppm			
	Rh	10 ppm			
	Ru	10 ppm			
	Se	15 ppm			
	Ag	15 ppm			
	Pt	10 ppm			
	Li	55 ppm			
	Sb	120 ppm			
Ba	140 ppm				
Mo	25 ppm				
Cu	5 ppm				
Sn	600 ppm				
Cr	25 ppm				
18	Residual solvents	Passes Test	Not mentioned	Not mentioned	Not mentioned
	Storage	Protect from light. Sensitive to light. Store in light-resistant containers. Keep container tightly closed in a dry and well-ventilated place..	Preserve in tight, light-resistant containers. No storage requirements specified.	Protected from light	Preserve in 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.					
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