




" clyzo " - Monograph Comparison



AS PER CURRENT USP 2022/EP11/JP18

	Product Name	2-Methyl-2,4-Pentanediol (USP-NF) pure, pharma grade (Hexylene Glycol)		Issue Date	March-23
	Product Code	141348		Prepared by	Sr. Tech Lead
	CAS NO.	107-41-5		Reviewed by	Manager Technical
	Manufacturer Name	PanReac AppliChem		Version no.	CLYZO/PAN/141348/01
Sr. No.	Test	Manufacturer COA	Pharmacopeial Specifications		
		Complies USP-NF	USP 2022	EP Version 11.0	JP 18
1	Descriprion	Clear, colorless liquid	Clear, colorless, viscous liquid. Absorbs moisture when exposed to moist air.		
2	Solubility	Miscible with water	Miscible with water and with many organic solvents, including alcohol, ether, chloroform, acetone, and hexanes.		
3	Identification 1	Passes the test	The infrared absorption spectrum obtained with sample should be concordant with spectrum obtained with Hexylene Glycol reference/wprking standard		
4	Identification 2	Passes the test	In the assay test, the retention time of the major peak of the Sample solution corresponds to that of the Standard solution		
5	Specific gravity	Between 0.917 and 0.923	Between 0.917 and 0.923		
6	Acidity	NMT 0.013%	NMT 0.20 mL of 0.10 N NaOH is required.		
7	Water	NMT 0.1%	NMT 0.5%		
8	Refractive Index	Between 1.424 and 1.430	Between 1.424 and 1.430		
9	Organic impurities	Acetone: NMT 0.1% 2-Propanol: NMT 0.1% 4-Methylpentan-2-one: NMT 0.1% 4-Methylpentan-2-ol: NMT 0.1% Diacetone Alcohol: NMT 0.1% Maximum individual impurity: NMT 0.1% Total impurities: NMT 1.0%	Acetone: NMT 0.1% 2-Propanol: NMT 0.1% 4-Methylpentan-2-one: NMT 0.1% 4-Methylpentan-2-ol: NMT 0.1% Diacetone Alcohol: NMT 0.1% Maximum individual impurity: NMT 0.1% Total impurities: NMT 1.0%		
10	Assay	Between 98.0% and 102.0% (anhydrous basis)	Between 98.0% and 102.0% (anhydrous basis)		
	Elemental Impurities				
	Cd	NMT 0.5 ppm			
	Pb	NMT 0.5 ppm			
	Assay	NMT 1.5 ppm			
	Hg	NMT 1.5 ppm			
	CO	NMT 5 ppm			
	V	NMT 10 ppm			
	Ni	NMT 20 ppm			
	Tl	NMT 0.8 ppm			
	Au	NMT 10 ppm			
	Pd	NMT 10 ppm			
	Ir	NMT 10 ppm			

11	Os	NMT 10 ppm	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			
12	Residual solvent	Passes the test	Not mentioned		
	Storage	Protect from exposure to the light. Keep tightly closed	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.					
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.					