

" clyzo " - Monograph Comparison



clyzo

AS PER CURRENT USP 2022/EP11/JP18								
	Product Name	Ethanol 96% v/v (Ph.Eur,BP,USP)GMP-IPEC grade	🍰	Issue Date	March-23			
	Product Code	631085	PanReac 🍫 AppliChem	Prepared by	Sr. Tech Lead			
	CAS NO.	64-17-5	AppliChem	Reviewed by	Manager Technical			
	Manufacturer Name	PanReac AppliChem	ITW Reagents	Version no.	CLYZO/PAN/631085/01			
	1							
Sr. No.		Manufacturer COA	Pharmacopeial Specifications					
		Complies Ph.Eur,BP,USP	USP 2022	EP Version 11.0	JP 18			
1	Descriprion	Clear, colourless liquid.Density about 0.805	Clear, colorless, mobile, volatile liquid. Has a characteristic odor and produces a burning sensation on the tongue. Is readily volatilized even at low temperatures, and boils at about 78°. Is flammable.	Colourless, clear, volatile, flammable liquid, hygroscopic. It burns with a blue, smokeless flame.Boiling point about 78 ⁰ C	A clear, colorless liquid.It is flammable and burns with a light blue flame on ignition. It is volatile.			
2	Solubility	Miscible with water and most of the solvents	Miscible with water and with practically all organic solvents.	Miscible with water and with methylene chloride.	It is miscible with water.			
3	Identification 1	IR passes test	The infrared absorption spectrum obtained with sample should be concordant with reference spectrum of ethanol 96%	The infrared absorption spectrum obtained with sample should be concordant with reference spectrum of ethanol 96%	The infrared absorption spectrum obtained with sample should be concordant with reference spectrum of ethanol			
4	Identification 2	Passes test	Should comply by specific gravity	Should comply by specific gravity	Not mentioned			
5	Identification 3	Passes test	Should comply by methanol limit test	After a few minutes, an intense blue colour appears on the paper and becomes paler after 10-15 min.	Not mentioned			
6	Identification 4	Passes the test	Not mentioned	A yellow precipitate should be formed within 30 minutes	Not mentioned			
7	Specific gravity @15.56 ⁰ C	Between 0.812 and 0.816 Between 0.805 and 0.812 (at 20 ⁰ C)	Between 0.812 and 0.816 @15.56°C	Between 0.805 and 0.812 @ 20 ⁰ C	Between 0.80872 and 0.81601 @ 15 ⁰ C			
8	Clariry and colour of solution/Appearance of solution	Passes the test	Sample solution A & B show the same clarity as that of water, or their opalescence is not more pronounced than that of Standard suspension A	The sample solution should be clear and colourless when compared with water	The sample solution should be clear when compared with water			
9	Color of solution	Passes the test	The Sample solution has the appearance of water or is not more intensely colored than the Standard solution.	Not mentioned	Not mentioned			
10	Other impurities (Absorbance)	Absorbances at 240 nm: NMT 0.40, Between 250 nm and 260 nm : NMT 0.30, Between 270 nm and 340 nm: NMT 0.10	Absorbances at 240 nm: NMT 0.40, Between 250 nm and 260 nm : NMT 0.30, Between 270 nm and 340 nm: NMT 0.10	Absorbances at 240 nm: NMT 0.40, Between 250 nm and 260 nm : NMT 0.30, Between 270 nm and 340 nm: NMT 0.10	Absorbances at 240 nm: NMT 0.40, Between 250 nm and 260 nm : NMT 0.30, Between 270 nm and 340 nm: NMT 0.10			
11	Acidity or alkalinity (in CH3COOH)	NMT 0.0030%	Pink colour should be developed (NMT 30 ppm as acetic acid)	Pink colour should be developed (NMT 30 ppm as acetic acid)	After addition 1.0 ml of 0.01 M NaOH should develop a pink color.			
12	Volatile impurities (organic impurities)	Acetaldehyde + Acetal: NMT 10 ppm Benzene: NMT 2 ppm Methanol: NMT 200 ppm Total impurities: NMT 300 ppm	Acetaldehyde + Acetal: NMT 10 ppm Benzene: NMT 2 ppm Methanol: NMT 200 ppm Total impurities: NMT 300 ppm	Methanol: NMT 200 ppm Acetaldehyde + Acetal: NMT 10 ppm Benzene: NMT 2 ppm Total impurities: NMT 300 ppm	Acetaldehyde + Acetal: NMT 10 ppm Benzene: NMT 2 ppm Total impurities: NMT 300 ppm			
13	Other impurities (Absorbance)	Not mentioned	Absorbances at 240 nm: NMT 0.40, Between 250 nm and 260 nm : NMT 0.30, Between 270 nm and 340 nm: NMT 0.10	Absorbance at 240 nm: NMT 0.40, Between 250 and 260 nm: NMT 0.30, Between 270 and 340: NMT 0.10.	Absorbances at 240 nm: NMT 0.40, Between 250 nm and 260 nm : NMT 0.30, Between 270 nm and 340 nm: NMT 0.10			
14	Residue on evaporation (non volatile residue)	NMT 25 ppm	NMT 25 ppm	NMT 25 ppm	NMT 25 ppm			

15	Assay	Between 92.6% and 95.2% (w/w) (at 20 ⁰ C)	Between 94.9% and 96.0%, by volume, at	Between 95.1% and 96.9%, by volume, at	
		Between 92.3% and 93.8% (w/w) (at 15.56 ⁰ C)	15.56°C	20.0°C	Between 95.1% and 96.9%, by volume, at
		Between 95.1% and 96.9% (v/v) (at 20 ^o C)			15.0°C
		Between 94.9% and 96.0% (at 15.560C) (v/v)			
16	Elemental Impurities		Not mentioned	Not mentioned	Not mentioned
	Cd	NMT 0.2 ppm			
	Pb	NMT 0.5 ppm			
	Assay	NMT 1.5 ppm			
	Hg	NMT 0.3 ppm			
	CO	NMT 0.5 ppm			
	V	NMT 1 ppm			
	Ni	NMT 2 ppm			
	ТΙ	NMT 0.8 ppm			
	Au	NMT 1 ppm			
	Pd	NMT 1 ppm			
	Ir	NMT 1 ppm			
	Os	NMT 1 ppm			
	Rh	NMT 1 ppm			
	Ru	NMT 1 ppm			
	Se	NMT 8 ppm			
	Ag	NMT 1 ppm			
	Pt	NMT 1 ppm			
	Li	NMT 25 ppm			
	Sb	NMT 9 ppm			
	Ва	NMT 70 ppm			
	Mo	NMT 25 ppm			
	Cu	NMT 30 ppm			
	Sn	NMT 60 ppm			
	Cr	NMT 25 ppm			
17	Residual solvent	Passes the test	Not mentioned	Not mentioned	Not mentioned
	Storage	Keep containers tightly closed in a dry, cool and	Preserve in tight containers, protected from	Protected from light	Store in tight containers, protected from ligh
		well-ventilated place. Keep awayfromheat,	light.		
		sparks, flame and other sources of ignition. Keep			
		in properly labeled containers. Do not store near			
		combustible materials. Keep in an area equipped			
		with sprinklers. Store in accordance with the			
		particular national regulations. Store in			
		accordance with local regulations. Store locked			
		-			
		up.			
	·	Note - If you need any additional testing, you may use	our Additional Testing Feature on the product page	e or contact your Clyzo reprensentive	
		Hote in you need any additional testing, you may use	our statistical resting reactive on the product page	or contact your cive reprensentive.	