



" clyzo " - Monograph Comparison



AS PER CURRENT USP 2022/EP11/JP18

Product Name	Triethanolamine (BP, Ph. Eur., USP-NF) pharma grade		Issue Date	March-23
Product Code	191750		Prepared by	Sr. Tech Lead
CAS NO.	102-71-6		Reviewed by	Manager Technical
Manufacturer Name	PanReac AppliChem		Version no.	CLYZO/PAN/191750/01

Sr. No.	Test	Manufacturer COA	Pharmacopeial Specifications		
		<i>Complies BP, Ph. Eur., USP-NF</i>	<i>USP 2022</i>	<i>EP Version 11.0</i>	<i>JP 18</i>
1	Description	Clear, pale yellow liquid	Colorless to pale yellow, viscous, hygroscopic liquid having a slight, ammoniacal odor.	Clear, viscous, colourless or slightly yellow liquid, very hygroscopic.	Product Not Official in Japanese Pharmacopoeia
2	Solubility	Miscible with water	Miscible with water and with alcohol. Soluble in chloroform.	Freely soluble in water, sparingly soluble in ethanol (96 per cent).	
3	Identification 1	Passes the test	The Infrared absorption spectrum obtained with sample should be concordant with spectrum obtained with Triethanolamine reference standard/working standard.	Relative density should be between 1.120 and 1.130	
4	Identification 2	Passes the test	1. A deep blue color should be produced. 2. The blue color should remains.	Refractive index should be between 1.482 and 1.485	
5	Identification 3	Passes the test	A carmine red color should be produced.	In related substances test, the principal peak in the chromatogram obtained with the test solution is similar in retention time and size to the principal peak in the chromatogram obtained with reference solution.	
6	Identification 4	Passes the test	Not mentioned	The blue colour remains unchanged.	
7	Appearance of solution	Passes the test	Not mentioned	Solution is clear and not more intensely coloured than reference solution B6	
8	Related substances	Impurity A: NMT 0.1% Impourity B: NMT 0.5% Total impurities: NMT 1.0%	Not mentioned	Impurity A: NMT 0.1% Impourity B: NMT 0.5% Total impurities: NMT 1.0%	
9	Specific gravity at 25°C	Between 1.120 and 1.128 (at 25 ^o C) Between 1.120 and 1.130 (at 20 ^o C)	Between 1.120 and 1.128 at 25°C	Not mentioned	
10	Refractive index at 20°C	Between 1.482 and 1.485 (at 20 ^o C)	Between 1.481 and 1.486 at 20°C	Not mentioned	
11	Impurity C	NMT 24 ppm	Not mentioned	NMT 24 ppb	
12	Water	NMT 0.5 %	NMT 0.5%	NMT 1.0%	
13	Residue on ignition	NMT 0.05 %	NMT 0.05%	Not mentioned	
14	Sulfated ash	Not mentioned	Not mentioned	NMT 0.1%	
15	Assay (Anhydrous basis)	Between 99.0% and 103.0%	Between 99.0% and 107.4%	Between 99.0% and 103.0%	
16	Elemental Impurities		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		
17	Residual solvents	Passes Test	Not mentioned	Not mentioned
	Storage	Store away from direct sunlight	Store in light resistant tight containers	In a non-metallic container, protected from light.

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.

