



" clyzo " - Monograph Comparison



AS PER CURRENT USP 2022/EP11/JP18

Product Name	Ethyl Acetate (BP, Ph. Eur.) pharma grade	 <small>TIW Reagents</small>	Issue Date	March-23
Product Code	191318		Prepared by	Sr. Tech Lead
CAS NO.	141-78-6		Reviewed by	Manager Technical
Manufacturer Name	PanReac AppliChem		Version no.	CLYZO/PAN/191318/01

Sr. No.	Test	Manufacturer COA		Pharmacopeial Specifications	
		Complies BP, Ph. Eur	USP 2022	EP Version 11.0	JP 18
1	Description	Clear, colorless liquid,	Transparent, colorless liquid, having a fragrant, refreshing, slightly acetous odor, and a peculiar, acetous, burning taste.	Clear, colourless, volatile liquid.	Product Not Official in Japanese Pharmacopoeia
2	Solubility	Soluble in water	Soluble in water. Miscible with alcohol, with ether, with fixed oils, and with volatile oils.	Soluble in water, miscible with acetone, with ethanol (96 per cent) and with methylene chloride.	
3	Identification 1	Passes The Test	The infrared absorption spectrum obtained with sample should be concordant with spectrum obtained with Ethyl Acetate RS/WS	The infrared absorption spectrum obtained with sample should be concordant with spectrum obtained with Ethyl Acetate RS/WS	
4	Identification 2	Passes The Test	Not mentioned	Boiling point should be between 76 °C and 78 °C.	
5	Identification 3 Acetyl	Passes The Test	Not mentioned	After 1 min to 2 min, a blue colour develops at the junction of the two drops; the colour intensifies and persists for a short time.	
6	Identification 4 Esters	Passes The Test	Not mentioned	A bluish-red or red colour should be produced.	
7	Appearance of solution	Passes The Test	Not mentioned	Sample solution should be clear and colourless	
8	Relative density	Between 0.898 and 0.902	Between 0.894 and 0.898	Between 0.898 and 0.902	
9	Refractive index	Between 1.370 and 1.373	Not mentioned	Between 1.370 and 1.373	
10	Reaction with Sulfuric acid	Passes The Test	Not mentioned	After 15 minutes, the interface between the 2 liquids is not coloured.	
11	Readily carbonisable substances	Not mentioned	No dark zone is developed within 15 minutes	Not mentioned	
12	Acidity	Passes The Test	NMT 0.10 ml of 0.10 N NaOH is required.	The solution remains pink for not less than 15 seconds	
13	Chromatographic purity(GC)	Passes The Test	Acetaldehyde: NMT 0.1% 1-Ethoxy-2-methylpropane: NMT 0.1% Methyl Compounds: NMT 0.1% Other impurities: NMT 0.3%	Total impurities: NMT 0.2%	
14	Limit of Nonvolatile residue	NMT 0.003%	NMT 0.02%	NMT 30 ppm	
15	Water	NMT 0.05%	Not mentioned	NMT 0.1%	
16	Matter insoluble in water	Passes The Test	Not mentioned	Not mentioned	
17	Assay	Between 99.8% and 100.5%	Between 98.0% and 102.0%	Not mentioned	
	Elemental Impurities		Not mentioned	Not mentioned	
	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			
	Ni	NMT 20 ppm			

18	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			
19	Residual solvents	Passes The Test	Not mentioned	Not mentioned
	Storage	Storage away from direct light	Preserve in tight containers, and avoid exposure to excessive heat.	Protected from light, at a temperature not exceeding 30 °C.

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.