



# " clyzo " - Monograph Comparison



## AS PER CURRENT USP 2022/EP11/JP18

<b>Product Name</b>	Methanol (USP-NF, BP, Ph. Eur.) pure, pharma grade		<b>Issue Date</b>	March-23
<b>Product Code</b>	141091		<b>Prepared by</b>	Sr. Tech Lead
<b>CAS NO.</b>	67-56-1		<b>Reviewed by</b>	Manager Technical
<b>Manufacturer Name</b>	PanReac AppliChem		<b>Version no.</b>	CLYZO/PAN/141091/01

Sr. No.	Test	Manufacturer COA	Pharmacopeial Specifications		
		<i>Complies USP-NF, BP, Ph. Eur.</i>	<i>USP 2022</i>	<i>EP Version 11.0</i>	<i>JP 18</i>
1	Description	Clear colorless liquid , hygroscopic	Clear, colorless liquid, having a characteristic odor. Is flammable.	Clear, colourless, volatile, hygroscopic liquid. Boiling point about 64 °C. It is flammable.	Product Not Official in Japanese Pharmacopoeia
2	Solubility	Miscible with water, alcohol, ether and methylene chlo	Miscible with water, with alcohol, with ether, with benzene, and with most other organic solvents	Miscible with water and with methylene chloride.	
3	Identification 1	Passes Test	The Infrared absorption spectrum obtained with sample should be concordant with spectrum obtained with Methyl alcohol reference standard/working standard	The Infrared absorption spectrum obtained with sample should be concordant with spectrum obtained with Methyl alcohol reference standard/working standard	
4	Identification 2	Refractive index should be between 1.328 and 1.330	In the test of assay, the retention time of the major peak of the Sample solution corresponds to that of the Standard solution	Refractive index should be between 1.328 and 1.330	
5	Acidity/ acidity or alkalinity	NMT 0.003%	NMT 0.45 mL of 0.020 N NaOH is required to produce a pink color.	NMT 0.9 ml of 0.01 M NaOH required to change the colour of the indicator to pink.	
6	Appearance	Passes Test	Not mentioned	Sample should be clear and colourless	
7	Alkalinity (as Ammonia)	NMT 0.0003%	NMT 3 ppm	Not mentioned	
8	Relative density	Between 0.791 and 0.793	Not mentioned	Between 0.791 and 0.793	
9	Absorbance	NMT 0.15 at 230 nm NMT 0.05 at 250 nm NMT 0.02 at 270 nm NMT 0.01 at 290 nm.	Not mentioned	NMT 0.15 at 230 nm NMT 0.05 at 250 nm NMT 0.02 at 270 nm NMT 0.01 at 290 nm.	
10	Impurity A	Not mentioned	Not mentioned	NMT 2.0%	
11	Related substances	Maximum unspecified impurity: NMT 0.1% Total impurity: NMT 0.3%	Not mentioned	Maximum unspecified impurity: NMT 0.1% Total impurity: NMT 0.3%	
12	Non volatile residue	NMT 0.001 % (w/w)	NMT 0.001 % (w/w)	NMT 10 ppm	
13	Readily carbonisable substance	Not mentioned	No discoloration develops.	Not mentioned	
14	Readily oxidisable substance /reducing substances	NMT 0.0005%	The pink color does not completely disappear within 5 minutes	The pink colour is not completely discharged within 5 min.	
15	Acetone and Aldehyde (As Acetone)	NMT 0.003%	NMT 0.003%	Not mentioned	
16	Matter insoluble in water	Passes Test	Not mentioned	Not mentioned	
17	Darkenes substances by H2SO4	Passes Test	Not mentioned	Not mentioned	
18	Clarity and color of solution	Passes Test	Not mentioned	Not mentioned	
19	Water	NMT 0.1%	NMT 0.1%	NMT 0.1%	
20	Assay	NLT 99.5%	NLT 99.5%	Not mentioned	
21	Elemental Impurities		Not mentioned	Not mentioned	
	Cd	NMT 0.5ppm			
	Pb	NMT 0.5ppm			
	As	NMT 1.5ppm			
	Hg	NMT 1.5ppm			
	Co	NMT 5ppm			

	V	NMT 10ppm		
	Ni	NMT 20ppm		
	Tl	NMT 0.8ppm		
	Au	NMT 10ppm		
	Pd	NMT 10ppm		
	Ir	NMT 10ppm		
	Os	NMT 10ppm		
	Rh	NMT 10ppm		
	Ru	NMT 10ppm		
	Se	NMT 15ppm		
	Ag	NMT 15ppm		
	Pt	NMT 10ppm		
	Li	NMT 55ppm		
	Sb	NMT 120ppm		
	Ba	NMT 140ppm		
	Mo	NMT 25ppm		
	Cu	NMT 250ppm		
	Sn	NMT 600ppm		
	Cr	NMT 25ppm		
22	Residual solvents	Passes Test	Not mentioned	Not mentioned
	Benzene	NMT 0.0002%		
	Acetone	NMT 0.002%		
	Ethanol	NMT 0.1%		
	Storage	Keep receptacle tightly sealed.Store in cool, dry conditions in well sealed receptacles. Protect from heat and direct sunlight.Open receptacle only under localized extractor facilities.Store receptacle in a well ventilated area. Store only outside or in explosion proof rooms.Store under lock and key and with access restricted to technical experts or their assistants only. Accesible for authorised persons only.	Preserve in tight containers, remote from heat, sparks, and open flames	In an airtight container

**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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