" clyzo " - Monograph Comparison

AS PER CURRENT USP 2022/EP11/JP18

	Product Name	**Benzoic Acid (USP, BP, Ph. Eur.) pure, pharma grade**	PanReac AppliChem ITW Reagents	**Issue Date**	March-23
	Product Code	141014		**Prepared by**	Sr. Tech Lead
	CAS NO.	65-85-0		**Reviewed by**	Manager Technical
	Manufacturer Name	**PanReac AppliChem**		**Version no.**	CLYZO/PAN/141014/01

Sr. No.	Test	Manufacturer COA	Pharmacopeial Specifications		
		Complies (USP, BP, Ph. Eur.)	*USP 2022*	*EP Version 11.0*	*JP 18*
1	Description	White crystalline powder.	White crystals, scales, or needles. Has a slight odor, usually suggesting benzaldehyde or benzoin.	White or almost white, crystalline powder or colourless crystals.	white, crystals or crystalline powder.It is odorless, or has a faint, benzaldehydelike odor.
2	Solubility	Slightly soluble in water	Freely volatile in steam. Freely soluble in alcohol, in chloroform, and in ether; slightly soluble in water.	Slightly soluble in water, soluble in boiling water, freely soluble in ethanol (96 per cent) and in fatty oils.	It is freely soluble in ethanol (95), in acetone and in diethyl ether, soluble in hot water, and slightly soluble in water.
3	Identification 1	Passes The Test	A salmon-colored precipitate should be formed	Melting point should be between 121 °C and 124 °C.	Not mentioned
4	Identification 2 (Benzoate)	Passes The Test	A white precipitate should form in 10 minutes which is soluble in ether.	Should comply by a dull-yellow precipitate formation	(1) The residue should melt between 120^{0}C and 124^{0}C 2) Should produce a pale yellow colored precipitate after addition of Ferric chloride TS.
5	Melting range	Between 121° and 123°C	Between 121° and 123°C	Not mentioned	Between 121^{0}C and 124^{0}C
6	Appearance of solution	Passes The Test	Not mentioned	Sample solution should be clear and colourless	Not mentioned
7	Insoluble matter in CHCl3	NMT 0.01%	Not mentioned	Not mentioned	Not mentioned
8	Insoluble matter in C2H5OH	Passes The Test	Not mentioned	Not mentioned	Not mentioned
9	Loss on drying	Not mentioned	Not mentioned	Not mentioned	NMT 0.5%
10	Sulfated ash	Not mentioned	Not mentioned	NMT 0.1%	Not mentioned
11	Residue on ignition	NMT 0.05 %	NMT 0.05%	Not mentioned	NMT 0.05%
12	Sulfate	NMT 0.005%	Not mentioned	Not mentioned	Not mentioned
13	Halogenated compounds and halides	NMT 0.03 %	Not mentioned	NMT 300 ppm	Sample Solution has not more turbid than the control solution.
14	Oxidisable substances/Reducing substances	Passes The Test	NMT 0.50 mL of 0.10 N KMnO4 should be consumed.	After 5 min, the solution should remain pink coloured.	A red color should persist for at least 15 seconds.
15	Darkened substances / Readily carbonisable substances	Passes The Test	Sample solution should be less intensely colored than Matching Fluid Q.	Sample solution should not be more intensely coloured than reference solution Y5	The solution is not more colored than Matching Fluid Q.
16	Phthalic acid	Not mentioned	Not mentioned	Not mentioned	The green fluorescence with the sample solution should not be more intense than that of the control solution.
17	Water	NMT 0.7 %	NMT 0.7%	Not mentioned	Not mentioned
18	Iron	NMT 0.001 %	Not mentioned	Not mentioned	Not mentioned
19	Heavy Metal	Not mentioned	Not mentioned	Not mentioned	NMT 20 ppm
20	Assay	Between 99.5 % and 100.5 %	Between 99.5 % and 100.5 %	Between 99.0 % and 100.5 %	NLT 99.5 %
21	Elemental Impurities		Not mentioned	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			
	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			
22	Residual solvents	Passes The Test	Not mentioned	Not mentioned	Not mentioned
	Storage	Storage away from direct light	Preserve in well-closed containers.	Not mentioned	Well closed containers

Note - If you need any additional testing, you may use our Additional Testing Feature on the product page or contact your Clyzo reprensentive.

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.