



" clyzo " - Monograph Comparison



AS PER CURRENT USP 2022/EP11/JP18

Product Name	4-Chloro-3-Methylphenol (USP-NF, BP, Ph. Eur.) pure, pharma grade		Issue Date	March-23
Product Code	145226		Prepared by	Sr. Tech Lead
CAS NO.	59-50-7		Reviewed by	Manager Technical
Manufacturer Name	PanReac AppliChem		Version no.	CLYZO/PAN/145226/01

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	White crystalline powder or compact crystalline masses, supplied as pellets.	Colorless or practically colorless crystals or crystalline powder, having a characteristic, nontarry odor.	White or almost white, crystalline powder or compacted crystalline masses supplied as pellets or colourless or white crystals.	Product Not Official in Japanese pharmacopoeia
2	Solubility	Slightly soluble in water	Very soluble in alcohol; soluble in ether, in terpenes, in fixed oils, and in solutions of alkali hydroxides; slightly soluble in water and more soluble in hot water	slightly soluble in water, very soluble in ethanol (96 %), freely soluble in fatty oils. It dissolves in solutions of alkali hydroxides.	
3	Identification 1	Passes The Test	A blue color should develop.	Melting point should be between 64 °C and 67 °C.	
4	Identification 2	Passes The Test	A white precipitate should be formed	Residue should melt between 85°C and 88°C	
5	Identification 3	Passes The Test	Not mentioned	A bluish colour should be produced.	
6	Melting Range	Between 64 °C and 66 °C.	Between 63°and 66°C	Not mentioned	
7	Appearance of solution	Passes The Test	Not mentioned	Sample solution should be clear and not more intensely coloured than reference solution BY6	
8	Acidity	Passes The Test	Not mentioned	NMT 0.2 m of 0.01 M NaOH is required to produce a pure yellow colour.	
9	Insoluble matter in CH3CH2OH	Passes The Test	Not mentioned	Not mentioned	
10	Completeness of Solution		Sample solution should be complete.	Not mentioned	
11	Related Substances	Maximum individual unknown impurity: NMT 0.10 %; Total impurities: NMT 1.0%	Not mentioned	Maximum individual unknown impurity: NMT 0.10 %; Total impurities: NMT 1.0%	
12	Non-volatile matter	NMT 0.1 %	NMT 0.1%	NMT 0.1 %	
13	Assay	Between 99.0 % and 101.0 %	Between 99.0 % and 101.0 %	Between 98.0 % and 101.0 %	
14	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			
	Tl	NMT 1 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			
15	Residual solvents	Passes The Test	Not mentioned	Not mentioned	
	Storage	Storage away from direct light	Preserve in tight, light-resistant containers.	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.