

NMT 1.5 ppm NMT 1.5 ppm NMT 2 ppm NMT 10 ppm NMT 10 ppm NMT 0.8 ppm

" clyzo " - Monograph Comparison





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	AS PER CURRENT USP 2022/EP11/JP18							
	Product Name	Dimethyl Sulfoxide (USP, BP, Ph. Eur.) pharma grade	PanReac AppliChem	Issue Date	March-23			
	Product Code	191954	1 anneae	Prepared by	Sr. Tech Lead			
	CAS NO.	67-68-5	AppliChem	Reviewed by	Manager Technical			
	Manufacturer Name	PanReac AppliChem	ITW Reagents	Version no.	CLYZO/PAN/191954/01			
ir. No.	Test	Manufacturer COA	Pharmacopeial Specifications					
		Complies USP, BP, Ph. Eur	USP 2022	EP Version 11.0	JP 18			
1	Description	Clear, colorless liquid, Melts at about 18.4°C. Boils at	Clear, colorless, odorless, hygroscopic liquid.	Colourless liquid or colourless crystals, hygroscopic	Product Not Official in Japanese			
		about 189°C	Melts at about 18.4°C. Boils at about 189°C		Pharmacopoeia			
2	Solubility	Miscible with water and ethanol, Practically	Soluble in water; practically insoluble in	Miscible with water and with ethanol (96 %)				
		insoluble in acetone, alcohol, benzene, chloroform	acetone, in alcohol, in benzene, in					
		and ether	chloroform, and in ether					
;	Identification 1	The Infrared absorption spectrum obtained with	The Infrared absorption spectrum obtained	The Infrared absorption spectrum obtained with				
		sample should be concordant with spectrum	with sample should be concordant with	sample should be concordant with spectrum				
		obtained with Dimethyl sulfoxide reference	spectrum obtained with Dimethyl sulfoxide	obtained with Dimethyl sulfoxide reference				
		standard/working standard.	reference standard/working standard.	standard/working standard.				
	Identification 2	Passes The Test	A deep violet, crystalline solid should be	Should comply with the relative density tests	-			
	identification 2	rasses the test	obtained, which is soluble in chloroform,	Should comply with the relative density tests				
			yielding a red solution.					
	Identification 3	Passes The Test	Not mentioned	Should comply with the refractive index tests	4			
<u>, </u>	Identification 4	Passes The Test	Not mentioned	Should comply by colour change to greenish-	4			
	identification 4	rasses the test	Not mentioned	yellow				
,	Specific Gravity/relative density	Between 1.095 and 1.101 (at 25°C)	Between 1.095 and 1.101	Between 1.10 and 1.104	1			
		Between 1.10 and 1.104 (at 20°C)						
3	Refractive Index	Between 1.4755 and 1.4775 (at 25°C)	Between 1.4755 and 1.4775	Between 1.478 and 1.480	1			
		Between 1.478 and 1.480 (at 20°C)						
)	Freezing point	NLT 18.3 °C	Not mentioned	NLT 18.3 °C	1			
	Acidity	Passes The Test	NMT 5.0 ml of 0.01 N NaOH is consumed	NMT 5.0 ml of 0.01 M NaOH is required to produce	1			
.0	, ionarcy	rasses the rest		a pink colour.				
1	Ultraviolet Absorbance	Passes The Test. Absorbance at 275 nm is NMT 0.20,	Absorbance at 275 nm is NMT 0.20, and the	Absorbance NMT 0.30 at 275 nm; NMT 0.20 at	1			
-		Absorbance at 285 nm is NMT 0.20, Absorbance at	absorbance ratios, A285/A275 and	both 285 nm and 295 nm. The substance should				
		295 nm is NMT 0.20, the absorbance ratios,	A295/A275, shiuld NMT 0.65 and 0.45,	not show absorption maximum between 270 nm				
		A285/A275 and A295/A275, shiuld NMT 0.65 and	respectively. Should not show absorption	and 350 nm.				
		0.45, respectively. Should not show absorption	maxima	una 550 mm.				
		maxima	IIIaAIIIIa					
.2	Water	NMT 0.1%	NMT 0.1%	NMT 0.2%	1			
13	Substances darkened by KOH	Passes test	Not mentioned	Not mentioned	1			
.4	Non volatile residue	NMT 0.01%	NMT 0.01%	Not mentioned	1			
15	Dimethyl Sulfone	NMT 0.03%	Not mentioned	Not mentioned	1			
	Related compounds	Unspecified impurity: NMT 0.10%	Total impurities: NMT 0.1%	Unspecified impurity: NMT 0.10% Total impurities:	1			
-		Total impurities: NMT 0.15%	3.27	NMT 0.15%				
.7	Assay (Anhydrous basis)	NLT 99.9%	NLT 99.9%	Not mentioned	†			
	Elemental Impurities		Not mentioned	Not mentioned	†			
	Cd	NMT 0. 5 ppm	- Mentioned	The mendoned				
	Pb	NMT 0.5 ppm	1					
	A.		-					
	As	NMT 1.5 npm						

	_		1	1	1
	Au	NMT 10 ppm			
l	Pd	NMT 10 ppm			
	Ir	NMT 10 ppm			
8	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			
	Ва	NMT 140 ppm			
	Мо	NMT 25 ppm			
	Cu	NMT 250 ppm			
	Sn	NMT 600 ppm			
	Cr	NMT 25 ppm			
9	Residual solvents	Passes The Test	Not mentioned	Not mentioned	
	Storage	Storage away from direct light.	Preserve in tight, light-resistant containers	In an airtight, glass 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 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.