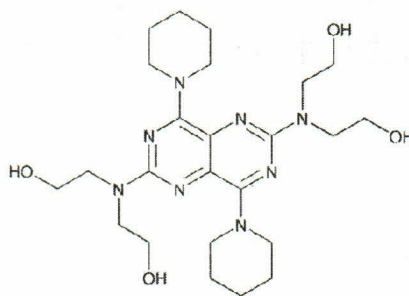


Batch no 202510201
Mf date Oct 07 2025
Retest Oct 06 2028
Batch size 506.7 kg

Molecular Structure



Molecular Formula $C_{24}H_{40}N_8O_4$
Molecular Weight 504.63
CAS Registry Number 58-32-2

Nov 04 2025

Tests	Specifications	Results
Appearance	Bright yellow crystalline powder	Conforms
Solubility	Practically insoluble in water, freely soluble in acetone, soluble in anhydrous ethanol. Freely soluble in diluted hydrochloride acid	Conforms
Identification	IR	Positive
Sulfated ash	$\leq 0.1\%$	0.05%
Related substances	Impurity A $\leq 0.5\%$	0.03%
	Impurity B $\leq 0.5\%$	0.01%
	Impurity C $\leq 0.5\%$	ND
	Impurity D $\leq 0.2\%$	0.02%
	Impurity E $\leq 0.2\%$	ND
	Any other impurity $\leq 0.1\%$	0.05%
	Total impurities $\leq 1.0\%$	0.05%
Residual solvents	Methanol $\leq 0.2\%$	ND
	Ethanol $\leq 0.2\%$	0.02%
Benzenesulfonate esters	Sum of methyl p-toluenesulfonate & ethyl p-toluenesulfonate ≤ 3.75 ppm	ND
Chlorides	≤ 200 ppm	Conforms
Loss on drying	$\leq 0.5\%$	0.1%
Assay (odb)	98.5 ~ 101.5% of $C_{24}H_{40}N_8O_4$	100.4%

Packaging & storage	Protected from light
Conclusion	Material complies with EP11.0