

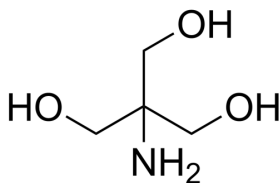
THAM

Cat. No.:	HY-D0227
CAS No.:	77-86-1
Batch No.:	391022
Chemical Name:	1,3-Propanediol, 2-amino-2-(hydroxymethyl)-

PHYSICAL AND CHEMICAL PROPERTIES

Molecular Formula:	C ₄ H ₁₁ NO ₃		
Molecular Weight:	121.14		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year

Chemical Structure:



ANALYTICAL DATA

	Specification	Result
Appearance:	White to off-white (Solid)	White (Crystal)
¹ H NMR Spectrum:	Consistent with structure	Consistent with structure
Melting point,°C:	168-172	168.9-169.7
Moisture,ω/%:	≤0.2	0.06
pH(50 g/L 25°C):	10.0-11.5	10.73
Clarity:	Colorless (40% in water)	Qualified
Absorbance(260nm.400g/L),ω/%:	≤0.1	Qualified
Absorbance(280nm.400g/L),ω/%:	≤0.06	Qualified
Absorbance(290nm.400g/L),ω/%:	≤0.2	Qualified
Absorbance(400nm.400g/L),ω/%:	≤0.02	Qualified
Water Insoluble Substance,ω/%:	≤0.005	Qualified
Heavy Metals(as Pb),ppm:	≤5.0	Qualified
Iron(Fe),ppm:	≤5.0	Qualified
Chloride(Cl),ppm:	≤1.0	Qualified
Sulfate(SO ₄),ppm:	≤10.0	Qualified
Burning Residue,ω/%:	≤0.1	Qualified

Purity, ω/%:

99.5-101.0

99.74

Conclusion:

The product has been tested and complies with the given specifications.

Caution: Product has not been fully validated for medical applications. For research use only.

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