

Specification

Tris for analysis, ACS

131940

Synonym	2-Amino-2-Hydroxymethyl-1,3-Propanediol, THAM, Tris base, Tris-(Hydroxymethyl)-Aminomethane, Trometamol, Tromethamine
state of matter	Solid
Solubility (20°C)	800 g/L (H ₂ O)
useful pH range	pH 7.2 - 9.0
pK_a (20°C)	8.3
Melting point	168 - 173°C
Formula	C ₄ H ₁₁ NO ₃
M	121.14 g/mol
CAS-No.:	77-86-1
HS-No.:	29221900
EC-No.:	201-064-4
Storage:	RT
LGK:	10 - 13
Disposal:	28
Hazard pictogram(s)	
Hazard statement(s)	H315-H319
Precautionary statement(s)	P302+P352-P305+P351+P338
Signal word	Warning
WGK:	1

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Assay (titr., calc. on dried substance)	99.8 - 100.1 %
Residue on ignition	max. 0.01 %
Identity (IR)	passes test
pH (0.05 M; H₂O)	10.2 - 10.6
Melting range	169 - 171°C
Heavy metals (as Pb)	max. 0.0005 %
Insoluble matter in H₂O	max. 0.005 %
Water (K.F.)	max. 0.5 %
Chloride	max. 0.0005 %
As	max. 0.00005 %
Ca	max. 0.001 %
Cd	max. 0.0001 %
Co	max. 0.0001 %
Cr	max. 0.0001 %
Cu	max. 0.0002 %
Fe	max. 0.0005 %
K	max. 0.001 %
Mg	max. 0.001 %
Na	max. 0.001 %
Ni	max. 0.0005 %
Pb	max. 0.0002 %
Zn	max. 0.0002 %
A (1 cm/40 % in H₂O)	
290 nm	max. 0.2