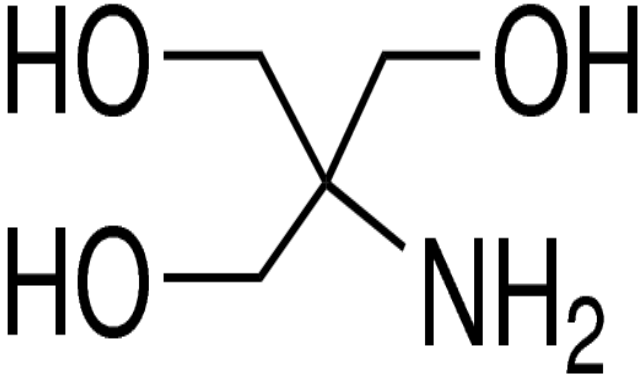


## Certificate of Analysis

Product Name	TRIS	
CAS Number	77-86-1	
Formula	C4H11NO3	
Formula Weight	121.14	
LOT#	HBS15072016	
Production Date	04-07-2016	
Expiry Date	03-07-2021	
Store at	18 to 26 °C	

Test	Specification	Result
Appearance (Color)	White to Off-White	White
Appearance (Form)	Crystalline Powder	Crystalline Powder
Solubility (Color)	Colorless to Faint Yellow	Colorless
Solubility (Turbidity) at 400g in 600ml of water	Clear	Clear
Infrared spectrum	Conforms to Structure	Conforms
Purity (H2SO4 titration)	≥ 99 %	99.9%