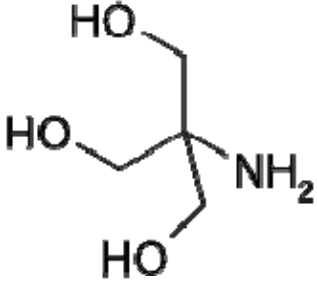


M/S. BIMAL PHARMA PVT. LTD . MUMBAI (INDIA)	FINISHED PRODUCT INFORMATIONS
QUALITY CONTROL AND ASSURANCE	PRODUCT : TRIS BUFFER (LR / GR / AR GRADE)
MSDS no. BPPL 156	SPECIFICATION NO. FP 156

1. **NOMENCLATURE** : 2-Amino-2-Hydroxymethyl-Propane-1,3-Diol.
: Tromethamine,
: Tris (Hydroxymethyl) Aminomethane.
2. **CAS NO.** : 77-86-1
3. **EMPIRICAL FORMULA** : $C_4H_{11}NO_3$
4. **MOL. WT.** : 121.14
5. **STRUCTURAL FORMULA** : 

The structural formula shows a central carbon atom bonded to three hydroxymethyl groups (-CH₂OH) and one amino group (-NH₂).
6. **MELTING RANGE** : 168.0 °C to 171 °C
7. **DESCRIPTION** : White crystalline powder, Free Flowing.
: Highly soluble in water.
8. **APPLICATIONS** : Most common Buffer for Biology / Biochemistry
in laboratory.
: Lab. Primary Standard for chemical analysis.

M/S. BIMAL PHARMA PVT. LTD . MUMBAI (INDIA)	FINISHED PRODUCT PHARMACOPOEIAL SPECIFICATIONS
QUALITY CONTROL AND ASSURANCE	PRODUCT : TRIS BUFFER (LR / GR / AR GRADE)
MSDS no. BPPL 156	SPECIFICATION NO. FP-156

1. **DESCRIPTION** : White crystalline powder. Free Flowing.
2. **SOLUBILITY** : Solubility in water at 20°C, 80 gms./100 ml ..
3. **IDENTIFICATION (IR)** : Passes.
4. **CLARITY & COLOUR OF SOLUTION
(APPEARANCE OF SOLUTION)** : Soluble in 10% water , solution is clear and colorless.
5. **WATER CONTENT** : ≤0.20 %
6. **ARSENIC** : NMT 0.0005 % (5 PPM)
7. **COPPER** : NMT 0.0001% (1 PPM)
8. **pH (5% Water) at 25 °C** : 10.0 to 11.5
9. **WATER INSOLUBLES** : 0.005 % (50 PPM)
10. **IRON CONTENT** : NMT 0.0001% (1 PPM)
11. **LEAD (Heavy Metal)** : NMT 0.0001% (1 PPM)
12. **SULFATE** : NMT 0.001% (10 PPM)
13. **CHLORIDE** : NMT 0.0003% (3 ppm)

M/S. BIMAL PHARMA PVT. LTD . MUMBAI (INDIA)	FINISHED PRODUCT PHARMACOPOEIAL SPECIFICATIONS
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MSDS no. BPPL 156	SPECIFICATION NO. FP-156

14. Ultraviolet absorbance : NMT 0.07
(40% aq.) (280 nm)

15. ASSAY (ODB) : 99.8%

16. PACKING : 25 Kgs. fibre drum with PE liner inside .