

TRIS HYDROCHLORIDE, 1KG**PG-4320-1KG**

Tris-HCl (Tris Hydrochloride) is one of the most widely used biological buffers in molecular biology, biochemistry, cell biology, and protein research. It provides excellent buffering capacity in the physiological pH range and is commonly used in nucleic acid extraction, PCR, electrophoresis, protein purification, enzyme assays, and molecular cloning applications. Tris-HCl ensures stable pH conditions essential for maintaining the integrity and activity of biomolecules.

Details**Product Name** Tris-HCl**Chemical Name** Tris(hydroxymethyl)aminomethane Hydrochloride**Molecular Formula** $C_4H_{11}NO_3 \cdot HCl$ **Molecular Weight** 157.60 g/mol**Appearance** White crystalline powder**Purity** $\geq 99\%$ **pKa (25°C)** 8.1**Useful Buffering Range** pH 7.0 – 9.0**Solubility** Freely soluble in water**CAS Number** 1185-53-1**Storage** RT**Safety**

Generally regarded as non-hazardous under normal laboratory conditions. Avoid inhalation of dust and contact with eyes. Use appropriate laboratory PPE, including gloves, lab coat, and safety glasses. Store in a cool, dry place away from moisture.