

Triton™ X-100**PG-4960-500ml**

Triton™ X-100 is a non-ionic surfactant widely used in molecular biology, biochemistry, cell biology, and analytical laboratories. It is highly effective for cell lysis, membrane solubilization, protein extraction, immunoassays, and membrane permeabilization while maintaining the biological activity of many proteins and enzymes. Triton X-100 is one of the most commonly used detergents in research applications.

Parameter Specification**Product Name** Triton™ X-100**Synonym** Polyethylene glycol tert-octylphenyl ether; Octoxinol-9**Molecular Formula** $C_{34}H_{62}O_{11}$ **Molecular Weight** 646.87 g/mol**Appearance** Colorless to light yellow, slightly hazy viscous liquid**Assay** ≥ 99%**Solubility** Miscible with water**pH** (5% solution in water) 6.0 – 8.0**Refractive Index (n_{20/D})** 1.490 – 1.492**Density (25°C)** 1.065 – 1.070 g/mL**Water Content** ≤ 1.0%**CAS Number** 9002-93-1**Safety**

Harmful if inhaled, swallowed, or absorbed through skin. Suspected carcinogen. May cause liver, kidney, and central nervous system damage following prolonged or repeated exposure. Use in a well-ventilated area and wear appropriate PPE including gloves, lab coat, and safety goggles. Avoid contact with skin, eyes, and clothing. Store away from heat and incompatible materials.