

Sodium Bicarbonate**PG-5680-1KG**

Sodium Bicarbonate, also known as Sodium Hydrogen Carbonate, is a high-purity buffering and pH-adjusting reagent widely used in molecular biology, cell culture, microbiology, biochemistry, pharmaceutical research, and analytical laboratories. It serves as an essential component in cell culture media, biological buffers, and various laboratory formulations where precise pH control is required.

Parameter Specification**Product Name** Sodium Bicarbonate**Synonym** Sodium Hydrogen Carbonate**Chemical Formula** NaHCO_3 **Molecular Weight** 84.01 g/mol**Appearance** White crystalline powder**Assay** $\geq 99.0\%$ **Solubility** Freely soluble in water**pH (1% Solution)** 8.0 – 8.6**Loss on Drying** $\leq 0.25\%$ **Chloride (Cl⁻)** $\leq 0.04\%$ **Sulfate (SO₄²⁻)** $\leq 0.05\%$ **Heavy Metals** ≤ 5 ppm**CAS Number** 144-55-8**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.