

Ammonium Persulfate (APS), 100G**PG-6840-100G**

Ammonium Persulfate (APS), 100G is a strong oxidizing agent widely used in molecular biology, polymer chemistry, analytical chemistry, electronics manufacturing, and water treatment applications. It serves as a free-radical initiator for polymerization reactions and is commonly used with TEMED for polyacrylamide gel preparation in electrophoresis

Parameter	Specification
Product Name	Ammonium Persulfate (APS)
Description	High-purity oxidizing agent used as a free-radical initiator for polyacrylamide gel preparation in electrophoresis applications.
Molecular Formula	$(\text{NH}_4)_2\text{S}_2\text{O}_8$
Molecular Weight	228.20 g/mol
Appearance	White crystalline powder
Purity	≥ 98%
Solubility	Freely soluble in water
pH (5% Solution)	3.0 – 5.0
CAS Number	7727-54-0
Storage Condition	Store at 2–8°C in a tightly closed container. Protect from moisture, heat, and direct sunlight.
Shelf Life	Refer to label.

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.