

AMMONIUM PERSULFATE

CAS# 7727-54-0



Ammonium Persulfate (APS) is a chemical compound widely used in various industrial and laboratory applications, particularly in polymerization, etching, and as an oxidizing agent.

Applications

Polymerization Initiator: Used as a radical initiator in polymerization of acrylates, styrene, etc.

Etching Agent: Utilized in the electronics industry for circuit board etching.

Oxidizing Agent: In the textile and paper industries for bleaching purposes.

Cleaning Agent: Used for removing contaminants from surfaces.

Disinfectant: Can be used as an oxidizer and disinfectant in water treatment processes.

Specifications & Physical Properties

Appearance: white crystalline powder.

Assay $[(\text{NH}_4)_2\text{S}_2\text{O}_8]$: 98.50% min.

Active Oxygen: 6.91% min.

Fe: 0.0005% max.

Mn: 0.0001% max.

Chloride (as Cl^-): 0.0010% max.

Heavy Metal (as Pb): 0.0010% max.

pH (50g/L Solution): 3.5 – 5.5

Moisture Content: 0.15% max.

Residue on ignition(as SO_4): 0.0500% max.

Hazard Classification

Hazardous

Classified as a strong oxidizing agent, and may cause skin, eye irritation, or allergic reactions.

Storage

Keep away from flammable substances and reduce contact with organic material.

Handling

Always wear appropriate protective equipment such as gloves, goggles, and a lab coat.

Avoid inhalation of dust.

Packaging

Typically packed in 25kg bag, or as required by the customer.