

Ammonium Persulfate

CAS No. 7727-54-0

Formula	(NH ₄) ₂ S ₂ O ₈	MW 228.2 g/mole
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Synonyms	Ammonia Peroxydisulfate
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Typical Analysis by Weight Percent

Purity, %	99.5
Active Oxygen, %	6.98
Moisture, %	0.02
Ammonium Persulfate, %	-
Sodium Sulfate, %	-
pH (1% solution)	5.2
Insolubles, ppm	20

Typical Metal Analysis by ppm

Iron, ppm	1
Copper, ppm	<0.3
Chloride, ppm	<10
Heavy Metals, as Pb, ppm	<1
Manganese, ppm	<0.5
Chromium, ppm	<0.5
Sodium, ppm	20
Potassium, ppm	50

Chemical and Physical Properties

Odor	None
Appearance	White crystals
Melting point	Decomposes
Specific gravity	1.98 g/mL @ 20°C (68°F)
Solubility in water @ 25°C (77°F)	85%
Loose bulk density	1.05 g/cc
Crystal density	1.98 g/cc

Shipment Information

DOT Classification - 5.1 (Oxidizer), yellow oxidizer label
55 lb (24.9 kg) - polyethylene bag; 225 lb (101.9 kg) - Fiber drum, polyethylene liner;
1000-2200 lb - IBC - polypropylene sack, polyethylene liner

Uses

Polymerization initiator, depolymerization in starch modification, and hair bleach formulations
