

FMC Corporation
Active Oxidants Division
1735 Market Street
Philadelphia, Pennsylvania 19103
Phone: (215) 299-6000



Potassium Persulfate

CAS No. 7727-21-1

Formula	K ₂ S ₂ O ₈	MW 270.3 g/mole
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Synonyms	Potassium Peroxydisulfate, Dipotassium Peroxydisulfate	
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Typical Analysis by Weight Percent

Purity, %	99.5
Active Oxygen, %	5.90
Moisture, %	0.02
Ammonium Persulfate, %	0.14
Sodium Sulfate, %	-
pH (1% solution)	6.4
Insolubles, ppm	20

Typical Metal Analysis by ppm

Iron, ppm	3
Copper, ppm	<0.2
Chloride, ppm	<10
Heavy Metals, as Pb, ppm	<1
Manganese, ppm	<0.5
Chromium, ppm	<0.5
Sodium, ppm	-
Potassium, ppm	-

Chemical and Physical Properties

Odor	None
Appearance	White crystals
Melting point	Decomposes
Specific gravity	2.48 g/mL @ 20°C (68°F)
Solubility in water @ 25°C (77°F)	6.0%
Loose bulk density	1.30 g/cc
Crystal density	2.48 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;

Uses

Polymerization initiator and hair bleach formulations

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