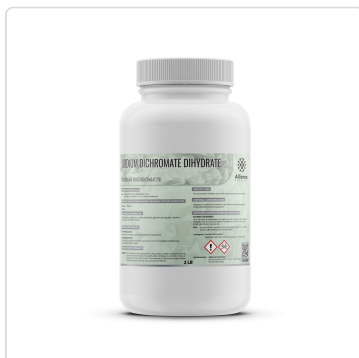


PRODUCT IDENTIFICATION



Product Name: Sodium Dichromate

CAS Number: 7789-12-0

Molecular Formula: $\text{Cr}_2\text{H}_4\text{Na}_2\text{O}_9$

Molecular Weight: 298.00 g/mol

Grade: Technical

Purity / Concentration: Not Available

Synonyms: sodium dichromate, sodium dichromate dihydrate

PRODUCT OVERVIEW

Sodium Dichromate dihydrate is a high-purity technical grade oxidizing agent characterized by a 99.8% assay and minimal impurity levels. This orange-red crystalline solid is widely utilized in industrial chemical synthesis, electroplating, and water treatment applications.

Grade Significance: Technical grade signifies that this product is manufactured for industrial and manufacturing applications where high performance and reliability are required, rather than for pharmaceutical or food-grade consumption.

CERTIFICATE OF ANALYSIS — TYPICAL VALUES

PARAMETER	UNIT	TYPICAL	MIN	MAX	TEST METHOD
Assay (wt%)	%	99.8	99	—	Titration
Ph Of 5Pct Solution	%	3.9	3.5	4.5	pH Meter
Calcium (Ca)	ppm	5	—	10	ICP-OES
Iron (Fe)	ppm	2	—	5	ICP-OES
Potassium (K)	ppm	10	—	20	ICP-OES
Sodium (Na)	%	0.05	—	0.1	Flame Emission Spectroscopy
Chloride (Cl^-)	ppm	5	—	10	Ion Chromatography
Sulfate (SO_4^{2-})	ppm	15	—	20	Turbidimetry
Insoluble Matter	%	0.0020	—	0.0050	Gravimetric

ND = Not Detected. Values are typical and may vary by lot.

PHYSICAL & CHEMICAL PROPERTIES

Appearance	Orange-red crystalline	Odor	Odorless
Form	Solid	Boiling Point	240°C (464°F)
Melting / Freezing Point	125°C (257°F)	Flash Point	Not applicable
Specific Gravity	1.5	Solubility	High water solubility, moderate organic solvent solubility
Molecular Formula	$\text{Cr}_2\text{H}_4\text{Na}_2\text{O}_9$	Molecular Weight	298.00 g/mol
Density (25°C)	1.83 g/mL		

APPLICATIONS

1. **Electroplating** — It serves as a critical source of chromium in metal finishing baths, ensuring high-quality corrosion resistance and aesthetic surface finishes.
2. **Water Treatment** — Used as an effective chemical additive to remove specific contaminants and inhibit corrosion within industrial cooling systems.
3. **Chemical Manufacturing** — Acts as a powerful oxidizing agent in various organic and inorganic synthesis processes to facilitate complex chemical transformations.
4. **Analytical Chemistry** — Utilized as a high-purity reagent for quantitative analysis and laboratory testing where precise chemical reactivity is required.

STORAGE & HANDLING

Proper storage is essential to prevent environmental contamination and manage the significant health hazards associated with this material. Because it is a strong oxidizer and carcinogen, it must be stored in a cool, dry, and well-ventilated area away from incompatible organic materials to prevent fire risks and accidental exposure.

- Store in a cool, dry place away from incompatible materials.
- Use containers made of HDPE or glass to prevent reactions.
- Avoid exposure to moisture and light to maintain product integrity.
- Wear appropriate personal protective equipment (PPE) including gloves and goggles.
- Ensure adequate ventilation in storage and handling areas.

AVAILABLE PACKAGING

- 2 lbs.
- 4 lbs.
- 55 lbs.

SAFETY SUMMARY (CROSS-REFERENCE TO SDS)

Signal Word: **Danger**



Hazard Statements:

- H317 (100%): May cause an allergic skin reaction [Warning Sensitization, Skin]
- H350 (100%): May cause cancer [Danger Carcinogenicity]
- H400 (100%): Very toxic to aquatic life [Warning Hazardous to the aquatic environment, acute hazard]
- H410 (100%): Very toxic to aquatic life with long lasting effects [Warning Hazardous to the aquatic environment, long-term hazard]

Emergency Contact: CHEMTEL - 800-255-3924 (24 Hours/Day, 7 Days/Week)

For complete safety information, refer to the Safety Data Sheet (SDS) for this product.

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