

PRODUCT IDENTIFICATION



Product Name: Sodium Dichromate Technical Grade

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 Grade

Purity / Concentration: Not Available

Synonyms: sodium dichromate, sodium dichromate dihydrate

PRODUCT OVERVIEW

Sodium Dichromate Technical Grade is a high-purity, orange-red crystalline solid widely utilized as a potent oxidizing agent in industrial chemical processes. With a verified assay of 100.0% and strictly controlled impurity levels, including vanadium at only 20 ppm, it provides the consistency required for demanding technical applications.

Grade Significance: Technical Grade indicates that this product is manufactured to meet industrial standards where high performance and reliability are required, providing an ideal balance between purity and cost-effectiveness for large-scale operations.

CERTIFICATE OF ANALYSIS — TYPICAL VALUES

PARAMETER	UNIT	TYPICAL	MIN	MAX	TEST METHOD
Assay (Titration)	%	100.0	99	100.5	Titration
Chloride Cl	%	0.0040	0	0.01	ICP
Sulfate So4	%	0.03	0	0.05	ICP
Vanadium V	ppm	20	0	50	ICP-OES

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** — Functions as a critical source of chromium in specialized electroplating baths to enhance metal surface durability and corrosion resistance.
2. **Water Treatment** — Used in various water treatment processes to effectively facilitate the removal of specific contaminants and impurities.
3. **Analytical Chemistry** — Employed as a reliable reagent in laboratory settings for precise quantitative analysis and chemical testing.
4. **Chemical Manufacturing** — Serves as a powerful oxidizing agent in a wide array of synthetic chemical reactions and industrial manufacturing cycles.

STORAGE & HANDLING

Because this chemical is classified as an oxidizer, it must be stored away from flammable materials and incompatible substances to prevent fire hazards. Proper containment in a cool, dry, and well-ventilated environment is essential to maintain product integrity and ensure workplace safety.

- 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:

- H272: May intensify fire; oxidiser
- H301: Toxic if swallowed
- H312: Harmful in contact with skin
- H314: Causes severe skin burns and eye damage
- H317: May cause an allergic skin reaction
- H330: Fatal if inhaled
- H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled
- H340: May cause genetic defects
- H350: May cause cancer
- H360FD: May damage fertility. May damage the unborn child.
- H372: Causes damage to organs through prolonged or repeated exposure
- H400: Very toxic to aquatic life
- H410: Very toxic to aquatic life with long lasting effects

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.

Alliance Chemical | 204 South Edmond St, Taylor, Texas 76574 | 512-365-6838 | www.alliancechemical.com

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