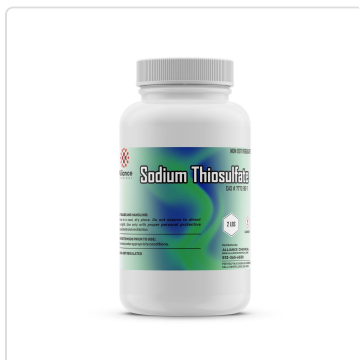


PRODUCT IDENTIFICATION

**Product Name:** Sodium Thiosulfate**CAS Number:** 7772-98-7**Molecular Formula:** $\text{Na}_2\text{O}_3\text{S}_2$ **Molecular Weight:** 158.11 g/mol**Grade:** Technical**Purity / Concentration:** Not Available**Synonyms:** Thiosulfuric acid sodium salt, Sodium thiosulphate

PRODUCT OVERVIEW

Sodium thiosulfate ($\text{Na}_2\text{S}_2\text{O}_3$) is a white crystalline compound commonly used in various industrial applications. It acts as a reducing agent and is particularly effective in water treatment processes and analytical chemistry.

CERTIFICATE OF ANALYSIS — TYPICAL VALUES

PARAMETER	UNIT	TYPICAL	MIN	MAX	TEST METHOD
Assay	%	100.0	99.5	100.5	Titration/Gravimetric
pH	—	8.6	6	9.03	pH Meter
Heavy Metals As Pb	ppm	≤ 5 ppm	—	—	ICP-MS (as Pb)
Iron	ppm	3	—	10	ICP
Chloride Cl	%	0.0060	—	0.02	ICP
Sulfate (SO_4^{2-})	%	0.0060	—	0.02	ICP-MS
Insoluble Matter	%	0.01	—	0.01	Gravimetric
Insolubles	%	0.01	—	0.01	Filtration
Loss On Drying	%	32 – 37 %	—	—	Loss on Drying

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

PHYSICAL & CHEMICAL PROPERTIES

Appearance	White crystalline powder	Odor	Odorless
Form	Solid	Boiling Point	100°C (212°F)
Melting / Freezing Point	48°C (119°F)	Specific Gravity	1.667
Solubility	High water solubility, moderate ethanol solubility	Molecular Formula	$\text{Na}_2\text{O}_3\text{S}_2$
Molecular Weight	158.11 g/mol	Density (25°C)	1.667 g/mL

APPLICATIONS

- Industrial** — Used as a dechlorinating agent in municipal water treatment processes.
- Research Laboratory** — Serves as a reducing agent in titrations and other analytical procedures.
- Industrial** — Utilized in photographic processing to fix images by removing unreacted silver halides.
- Industrial** — Applied in dyeing processes to neutralize excess chlorine.
- Pharmaceutical** — Used in the synthesis of certain pharmaceutical compounds.

STORAGE & HANDLING

- Store in a cool, dry place away from incompatible materials.
- Use HDPE containers for storage to prevent moisture absorption.
- Avoid exposure to light and heat to maintain product stability.
- Use personal protective equipment (PPE) such as gloves and goggles when handling.

AVAILABLE PACKAGING

- 2 lbs.
- 5 Lbs.
- 55 Lbs.

SAFETY SUMMARY (CROSS-REFERENCE TO SDS)

Signal Word: **WARNING**

No GHS pictograms assigned.

Hazard Statements:

- Not Classified
- Reported as not meeting GHS hazard criteria by 2637 of 2963 companies

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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