

PRODUCT IDENTIFICATION

**Product Name:** Sodium Hypochlorite 1%**CAS Number:** 7681-52-9**Molecular Formula:** ClNaO**Molecular Weight:** 74.44 g/mol**Grade:** Technical Grade**Purity / Concentration:** 1%**Synonyms:** Not Available

PRODUCT OVERVIEW

Sodium Hypochlorite 1% is a technical grade, aqueous solution formulated for consistent performance in general industrial and laboratory settings. This pale yellow liquid provides a reliable, low-concentration source of active chlorine for controlled chemical processes.

Grade Significance: Technical Grade indicates that this product is manufactured for general industrial utility where high-purity standards are not required for human consumption or pharmaceutical use. This allows end users to benefit from a cost-effective solution that meets standard industrial performance benchmarks.

CERTIFICATE OF ANALYSIS — TYPICAL VALUES

Certificate of Analysis data not available for this product.

PHYSICAL & CHEMICAL PROPERTIES

Appearance	Pale yellow liquid with slight chlorine odor	Form	Liquid
Boiling Point	101°C (dilute)	Melting / Freezing Point	-6°C (21°F)
Specific Gravity	1.018	Solubility	Fully soluble in water
Molecular Formula	ClNaO	Molecular Weight	74.44 g/mol

APPLICATIONS

- Laboratory Research** — Used as a mild oxidizing agent for various analytical procedures and benchtop chemical testing. It allows researchers to maintain precise control over reaction environments.
- Water Treatment** — Utilized in small-scale applications for the neutralization of specific chemical contaminants. It serves as an effective tool for maintaining water quality in controlled systems.
- Industrial Cleaning** — Acts as a foundational component for diluted sanitization solutions in industrial maintenance. Its controlled concentration ensures safety while addressing surface cleanliness requirements.
- Textile Manufacturing** — Applied in textile processing for light-duty bleaching and color correction. The 1% concentration helps prevent fiber damage during delicate material handling.
- Chemical Synthesis** — Serves as a precursor or reagent in organic synthesis pathways. Its technical grade purity supports consistent results in standard manufacturing workflows.

STORAGE & HANDLING

Sodium Hypochlorite is light-sensitive and prone to decomposition if exposed to heat or direct sunlight, which can rapidly diminish its active concentration. Proper storage in a cool, dark, and ventilated area is essential to prevent pressure buildup and maintain the integrity of the solution. Adhering to these conditions minimizes the risk of skin and eye irritation associated with accidental container failure.

AVAILABLE PACKAGING

- 1 Quart
- 1 Gallon
- 5 Gallon
- 15 Gallon
- 55 Gallon
- 275 Gallon
- 330 Gallon

SAFETY SUMMARY (CROSS-REFERENCE TO SDS)

Signal Word: Warning



Hazard Statements:

- H315: Causes skin irritation
- H319: Causes serious eye irritation

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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