

PRODUCT IDENTIFICATION



Product Name: Sodium Hypochlorite 1%

CAS Number: 7681-52-9

Molecular Formula: ClNaO

Molecular Weight: 74.44 g/mol

Grade: Technical

Purity / Concentration: 1%

Synonyms: Not Available

PRODUCT OVERVIEW

Sodium Hypochlorite 1% is a stabilized, technical-grade aqueous solution designed for consistent industrial and laboratory applications. This pale yellow liquid provides a controlled concentration of active chlorine to ensure predictable performance in diverse chemical processes.

Grade Significance: Technical grade indicates that this product is manufactured for industrial and commercial utility rather than pharmaceutical or food-grade applications, offering a cost-effective solution for non-consumable processes.

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

- Industrial Cleaning** — Used as a mild bleaching agent for sanitizing surfaces and industrial equipment to maintain hygiene standards.
- Water Treatment** — Serves as an effective, low-concentration disinfectant for controlling microbial growth in small-scale water systems.
- Laboratory Research** — Utilized as a reagent for oxidation reactions or as a standard laboratory disinfectant for glassware and workstations.
- Textile Manufacturing** — Applied in controlled processes for the bleaching of fibers and fabrics to achieve specific color profiles.

STORAGE & HANDLING

Proper storage is critical because Sodium Hypochlorite is sensitive to light and temperature, which can accelerate decomposition and reduce its efficacy. It must be stored in a cool, ventilated area away from incompatible materials to prevent the release of hazardous chlorine gas and to mitigate the risks associated with its corrosive properties.

AVAILABLE PACKAGING

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

SAFETY SUMMARY (CROSS-REFERENCE TO SDS)

Signal Word: **Danger**



Hazard Statements:

- H314: Causes severe skin burns and eye damage [Danger Skin corrosion/irritation]
- H318: Causes serious eye damage [Danger Serious eye damage/eye irritation]
- H400: Very toxic to aquatic life [Warning Hazardous to the aquatic environment, acute hazard]
- H410: 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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