

PRODUCT IDENTIFICATION



Product Name: Sodium Hypochlorite 8.25%

CAS Number: 7681-52-9

Molecular Formula: ClNaO

Molecular Weight: 74.44 g/mol

Grade: Technical

Purity / Concentration: 8.25%

Synonyms: Not Available

PRODUCT OVERVIEW

Sodium Hypochlorite 8.25% is a high-performance technical grade disinfectant and bleaching agent. This liquid chemical is formulated for consistent, effective performance in industrial sanitation and water treatment applications.

Grade Significance: Technical grade indicates that this product is manufactured for industrial and commercial utility, prioritizing chemical efficacy over the stringent purity standards required for pharmaceutical or food-grade applications.

CERTIFICATE OF ANALYSIS — TYPICAL VALUES

Certificate of Analysis data not available for this product.

PHYSICAL & CHEMICAL PROPERTIES

| | | | |
|--------------------------|---|---------------------------------|------------------------|
| Appearance | Yellow-green liquid with strong chlorine odor | Form | Liquid |
| Boiling Point | 101°C (dilute) | Melting / Freezing Point | -6°C (21°F) |
| Specific Gravity | 1.12 | Solubility | Fully soluble in water |
| Molecular Formula | ClNaO | Molecular Weight | 74.44 g/mol |

APPLICATIONS

- Water Treatment** — Used as a potent oxidizing agent for municipal and industrial water disinfection to control bacteria and algae growth.
- Industrial Cleaning** — Serves as an active ingredient in heavy-duty cleaners and sanitizers for surfaces in manufacturing environments.
- Textile Manufacturing** — Utilized in the bleaching process to achieve desired whiteness and color removal in fabrics and fibers.
- Laboratory Research** — Employed as a standard reagent for chemical synthesis and equipment sterilization in controlled lab settings.

STORAGE & HANDLING

Proper storage is critical because Sodium Hypochlorite is sensitive to heat, light, and contact with incompatible materials, which can lead to decomposition and the release of hazardous chlorine gas. Maintaining a cool, ventilated environment is essential to mitigate severe skin and eye burn risks and to prevent environmental contamination.

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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