

### PRODUCT IDENTIFICATION



**Product Name:** Sodium Hypochlorite 3%

**CAS Number:** 7681-52-9

**Molecular Formula:** ClNaO

**Molecular Weight:** 74.44 g/mol

**Grade:** Technical

**Purity / Concentration:** 3%

**Synonyms:** Not Available

### PRODUCT OVERVIEW

Alliance Chemical offers high-quality 3% Sodium Hypochlorite in a technical grade, providing a reliable solution for general industrial and laboratory applications. This pale yellow liquid is formulated for consistent performance, ensuring effective chemical utility across various professional settings.

**Grade Significance:** Technical grade indicates that this product is manufactured for industrial and laboratory use where functional performance is required, rather than for food or pharmaceutical consumption. It provides a cost-effective solution for applications where high-purity standards are not strictly mandated.

### CERTIFICATE OF ANALYSIS — TYPICAL VALUES

*Certificate of Analysis data not available for this product.*

### PHYSICAL & CHEMICAL PROPERTIES

<b>Appearance</b>	Pale yellow liquid with chlorine odor	<b>Form</b>	Liquid
<b>Boiling Point</b>	101°C (dilute)	<b>Melting / Freezing Point</b>	-6°C (21°F)
<b>Specific Gravity</b>	1.048	<b>Solubility</b>	Fully soluble in water
<b>Molecular Formula</b>	ClNaO	<b>Molecular Weight</b>	74.44 g/mol

### APPLICATIONS

- Water Treatment** — Used as a disinfectant to manage microbial growth in industrial water systems. It helps maintain water quality by effectively neutralizing common pathogens.
- Laboratory Research** — Serves as a standard oxidizing agent for various bench-top chemical reactions. It is essential for routine cleaning and decontamination of laboratory equipment.
- Textile Manufacturing** — Utilized in controlled bleaching processes to achieve desired color profiles in fabrics. It ensures uniform results during the treatment stage of textile production.
- Industrial Cleaning** — Acts as a potent sanitizing agent for industrial surfaces and processing areas. Its oxidative properties effectively break down organic residues and contaminants.

### STORAGE & HANDLING

Proper storage is critical because Sodium Hypochlorite is sensitive to heat and light, which can accelerate degradation and reduce its active concentration. Furthermore, due to its classification as a corrosive substance causing skin and eye damage, it must be stored in a cool, ventilated area away from incompatible materials to prevent hazardous reactions.

## 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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