

PRODUCT IDENTIFICATION



Product Name: Sodium Hydroxide 5% Technical Grade

CAS Number: 1310-73-2

Molecular Formula: HNaO

Molecular Weight: 39.997 g/mol

Grade: Technical Grade

Purity / Concentration: 5%

Synonyms: Not Available

PRODUCT OVERVIEW

Sodium Hydroxide 5% Technical Grade is a clear, colorless aqueous solution designed for general industrial and laboratory applications. As a caustic base, this 5% concentration offers a controlled, ready-to-use strength for pH adjustment and chemical processing needs.

Grade Significance: Technical Grade indicates that this product is manufactured for general industrial utility where high-purity or analytical-grade standards are not required, providing a cost-effective solution for standard operational tasks.

CERTIFICATE OF ANALYSIS — TYPICAL VALUES

Certificate of Analysis data not available for this product.

PHYSICAL & CHEMICAL PROPERTIES

Appearance	Clear, colorless liquid	Form	Liquid
Boiling Point	1390°C (pure)	Melting / Freezing Point	318°C (pure)
Specific Gravity	1.054	Solubility	Fully soluble in water
Molecular Formula	HNaO	Molecular Weight	39.997 g/mol

APPLICATIONS

- Water Treatment** — Used as a neutralizing agent to balance the pH levels of wastewater streams before discharge.
- Manufacturing** — Serves as a reliable reagent in various chemical synthesis processes requiring a moderate alkaline environment.
- Laboratory Research** — Utilized as a standard bench-top reagent for routine titration and sample preparation tasks.
- Industrial Cleaning** — Functions as a component in cleaning formulations for removing organic residues from equipment surfaces.
- Textile Processing** — Applied in the scouring and mercerizing stages to improve fiber quality and dye absorption.

STORAGE & HANDLING

Proper storage is essential because Sodium Hydroxide is corrosive to many metals and can cause severe skin burns or eye damage upon contact. It should be kept in compatible, sealed containers to prevent accidental spills and maintain product integrity, ensuring safety for all personnel in the facility.

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:

- H290: May be corrosive to metals
- H314: Causes severe skin burns and eye damage

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

Disclaimer: The information contained herein is believed to be accurate and represents the best information currently available to us. However, Alliance Chemical makes no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.