

PRODUCT IDENTIFICATION



Product Name: Sodium Hydroxide 10% ACS Grade

CAS Number: 1310-73-2

Molecular Formula: HNaO

Molecular Weight: 39.997 g/mol

Grade: ACS Grade

Purity / Concentration: 10%

Synonyms: Not Available

PRODUCT OVERVIEW

Our Sodium Hydroxide 10% solution is a high-purity ACS grade reagent formulated for consistent performance in laboratory and industrial environments. This clear, colorless liquid provides a reliable concentration for sensitive chemical processes requiring strict analytical standards.

Grade Significance: ACS Grade signifies that this product meets the rigorous purity standards set by the American Chemical Society, ensuring it is suitable for use in high-stakes analytical and laboratory applications.

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	1.109	Solubility	Fully soluble in water
Molecular Formula	HNaO	Molecular Weight	39.997 g/mol

APPLICATIONS

- Analytical Chemistry** — Used as a standard titrant for determining the concentration of acids in various laboratory samples.
- Water Treatment** — Acts as a pH adjuster to neutralize acidic wastewater and maintain optimal balance in treatment systems.
- Pharmaceutical Manufacturing** — Utilized in the synthesis of active pharmaceutical ingredients where precise pH control is essential for product stability.
- Food Processing** — Applied in cleaning-in-place (CIP) protocols to effectively remove organic residues from stainless steel equipment.
- Textile Industry** — Used in the mercerization process to increase the strength and dye affinity of cotton fibers.

STORAGE & HANDLING

Proper storage is critical because Sodium Hydroxide is highly corrosive to metals and poses severe risks for skin and eye tissue. It must be kept in compatible containers to prevent structural failure of the vessel and to mitigate the risk of dangerous chemical exposure.

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.

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