

PRODUCT IDENTIFICATION

**Product Name:** Sodium Hydroxide 20% ACS Grade**CAS Number:** 1310-73-2**Molecular Formula:** HNaO**Molecular Weight:** 39.997 g/mol**Grade:** ACS Grade**Purity / Concentration:** 20%**Synonyms:** Not Available

PRODUCT OVERVIEW

Alliance Chemical offers high-quality 20% Sodium Hydroxide in ACS Grade, a clear, slightly viscous liquid essential for precise laboratory and industrial applications. This concentration provides a reliable, ready-to-use solution that adheres to strict quality standards for consistent performance in sensitive chemical processes.

Grade Significance: ACS Grade signifies that the chemical meets the rigorous specifications set by the American Chemical Society, ensuring high purity and minimal trace contaminants for critical laboratory work.

CERTIFICATE OF ANALYSIS — TYPICAL VALUES

Certificate of Analysis data not available for this product.

PHYSICAL & CHEMICAL PROPERTIES

Appearance	Clear, slightly viscous pale liquid	Form	Liquid
Boiling Point	1390°C (pure)	Melting / Freezing Point	318°C (pure)
Specific Gravity	1.219	Solubility	Fully soluble in water
Molecular Formula	HNaO	Molecular Weight	39.997 g/mol

APPLICATIONS

- Analytical Chemistry** — Used as a standardized reagent in laboratory titrations and pH adjustment procedures. Its ACS purity ensures that analytical results remain accurate and free from unexpected contaminants.
- Water Treatment** — Utilized for pH neutralization and alkalinity adjustment in water purification systems. It effectively balances acidic water supplies to meet regulatory safety standards.
- Pharmaceutical Manufacturing** — Employed as a process chemical for the synthesis of active pharmaceutical ingredients and the cleaning of production equipment. High-grade purity is critical here to prevent degradation of sensitive compounds.
- Food and Beverage** — Used in clean-in-place (CIP) systems to sanitize processing lines and remove organic residues. The ACS grade ensures that no harmful impurities are introduced during the sanitation cycle.
- Electronics** — Acts as an etching agent and cleaning solution for semiconductor wafers. Precise concentration control is vital to prevent damage to delicate electronic components.

STORAGE & HANDLING

Sodium Hydroxide is highly corrosive to metals and human tissue, requiring storage in specialized, chemically resistant containers like high-density polyethylene. Proper containment prevents hazardous leaks that could damage equipment or cause severe skin and eye burns as indicated by the H314 hazard classification.

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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