

PRODUCT IDENTIFICATION



Product Name: Hydrochloric Acid 25% Technical Grade

CAS Number: 7647-01-0

Molecular Formula: ClH

Molecular Weight: 36.46 g/mol

Grade: Technical Grade

Purity / Concentration: 25%

Synonyms: Not Available

PRODUCT OVERVIEW

Alliance Chemical offers 25% Technical Grade Hydrochloric Acid, a versatile and highly reactive inorganic solution essential for various industrial processes. This clear, colorless liquid is characterized by its specific gravity of 1.124 and is primarily utilized for pH adjustment and chemical synthesis.

Grade Significance: Technical Grade indicates that this product is formulated for general industrial use where high-purity specifications are not required, providing a cost-effective solution for large-scale operations.

CERTIFICATE OF ANALYSIS — TYPICAL VALUES

Certificate of Analysis data not available for this product.

PHYSICAL & CHEMICAL PROPERTIES

Appearance	Clear, colorless to slightly yellow liquid with HCl odor	Form	Liquid
Boiling Point	108°C (20.2% azeotrope)	Melting / Freezing Point	-74°C (-101°F)
Flash Point	Not applicable	Specific Gravity	1.124
Solubility	Fully soluble in water	Molecular Formula	ClH
Molecular Weight	36.46 g/mol		

APPLICATIONS

- Water Treatment** — Used to effectively adjust the pH levels of water systems to ensure compliance with environmental and safety standards.
- Metal Processing** — Utilized in pickling baths to remove rust and scale from steel surfaces prior to further manufacturing or finishing.
- Chemical Manufacturing** — Serves as a vital reagent in the synthesis of organic and inorganic compounds for a wide range of industrial applications.
- Laboratory Research** — Applied as a standard reagent for acidification and cleaning procedures within professional research environments.
- Textile Industry** — Employed for the neutralization of alkaline solutions and in the processing of various fibers.

STORAGE & HANDLING

Proper storage is critical because this acid is corrosive to metals and poses severe burn risks upon contact. It must be stored in a cool, well-ventilated area using compatible, corrosion-resistant containers to prevent hazardous leaks and structural degradation.

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
- H335: May cause respiratory irritation

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.