

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% Hydrochloric Acid in a reliable Technical Grade formulation suitable for a variety of industrial applications. This clear, colorless to slightly yellow liquid is a versatile mineral acid with a specific gravity of 1.124, commonly used in pH control and general chemical processing.

Grade Significance: Technical Grade indicates that the product is manufactured for industrial utility where high-volume performance is prioritized over the stringent purity standards required for pharmaceutical or food-grade applications.

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 for pH adjustment and neutralization of alkaline wastewater streams to ensure compliance with environmental regulations.
- Metal Processing** — Applied in pickling processes to remove scale and rust from steel surfaces prior to further finishing or coating.
- Chemical Manufacturing** — Serves as a fundamental reagent in the synthesis of various organic and inorganic compounds for industrial chemical production.
- Laboratory Research** — Utilized as a standard acidifying agent for various analytical procedures and routine laboratory chemical testing.
- Textile Industry** — Employed in the processing and bleaching of textile fibers to achieve desired texture and color properties.

STORAGE & HANDLING

Due to its corrosive nature and potential for toxic inhalation, Hydrochloric Acid must be stored in a cool, well-ventilated area in compatible, corrosion-resistant containers. Proper containment prevents severe skin burns and eye damage, ensuring the safety of personnel and the integrity of the surrounding environment.

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]
- H331: Toxic if inhaled [Danger Acute toxicity, inhalation]

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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