

PRODUCT IDENTIFICATION



Product Name: Hydrochloric Acid 10% Technical Grade

CAS Number: 7647-01-0

Molecular Formula: ClH

Molecular Weight: 36.46 g/mol

Grade: Technical Grade

Purity / Concentration: 10%

Synonyms: Not Available

PRODUCT OVERVIEW

Alliance Chemical offers 10% Technical Grade Hydrochloric Acid, a clear and colorless liquid formulated for versatile industrial and laboratory applications. With a specific gravity of 1.047, this solution provides a reliable concentration for processes requiring precise acidity control. It serves as a fundamental reagent for various chemical synthesis and maintenance tasks.

Grade Significance: Technical Grade indicates that this product is manufactured for general industrial use where high purity is not required, offering a cost-effective solution for non-pharmaceutical or non-food applications.

CERTIFICATE OF ANALYSIS — TYPICAL VALUES

Certificate of Analysis data not available for this product.

PHYSICAL & CHEMICAL PROPERTIES

Appearance	Clear, colorless liquid with faint HCl odor	Form	Liquid
Boiling Point	108°C (20.2% azeotrope)	Melting / Freezing Point	-74°C (-101°F)
Flash Point	Not applicable	Specific Gravity	1.047
Solubility	Fully soluble in water	Molecular Formula	ClH
Molecular Weight	36.46 g/mol		

APPLICATIONS

- Water Treatment** — Used for pH adjustment in industrial water systems to ensure optimal chemical balance and prevent scaling.
- Metal Processing** — Functions as a pickling agent to remove rust and scale from steel surfaces prior to further finishing or coating.
- Laboratory Research** — Acts as a standard acidifying agent for various bench-top chemical reactions and analytical procedures.
- Chemical Manufacturing** — Utilized as a precursor in the production of inorganic compounds and as a catalyst in organic synthesis.
- Textile Industry** — Applied in the processing and bleaching of textile fibers to achieve desired texture and cleanliness.

STORAGE & HANDLING

Proper storage is critical because this acid is corrosive to metals and poses severe burn risks to skin and eyes. It must be kept in compatible, corrosion-resistant containers within a cool, well-ventilated area to prevent the buildup of irritating vapors and potential container failure.

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.

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