

PRODUCT IDENTIFICATION

**Product Name:** Hydrochloric Acid 10% ACS Grade**CAS Number:** 7647-01-0**Molecular Formula:** ClH**Molecular Weight:** 36.46 g/mol**Grade:** ACS Grade**Purity / Concentration:** 10%**Synonyms:** Not Available

PRODUCT OVERVIEW

Alliance Chemical offers high-quality Hydrochloric Acid 10% in an ACS Grade formulation, ensuring reliable performance for laboratory and industrial applications. This clear, colorless liquid is standardized for precision and consistency in sensitive chemical processes.

Grade Significance: ACS Grade signifies that the product meets the stringent purity specifications set by the American Chemical Society, ensuring the consistency and low impurity levels required for critical scientific analysis.

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

- Analytical Chemistry** — Utilized as a precise reagent in laboratory settings for titration, sample preparation, and pH adjustment.
- Water Treatment** — Applied for effective pH control and neutralization of alkaline water streams in industrial treatment facilities.
- Metal Processing** — Used for pickling and surface cleaning of metal parts to remove oxide scales and impurities before coating or plating.
- Pharmaceutical Manufacturing** — Employed as a processing agent in the synthesis of active pharmaceutical ingredients where high-purity standards are required.

STORAGE & HANDLING

Hydrochloric acid is highly corrosive to metals and can release irritating vapors, making proper containment essential to prevent structural damage and personnel exposure. Storage must be in a cool, well-ventilated area using compatible, acid-resistant materials to maintain chemical integrity and safety.

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.

Alliance Chemical | 204 South Edmond St, Taylor, Texas 76574 | 512-365-6838 | www.alliancechemical.com

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