

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

Hydrochloric Acid 10% ACS Grade is a high-purity, laboratory-grade solution designed for precise industrial and analytical applications. This clear, colorless liquid is standardized to ensure consistent chemical performance and reliability in sensitive testing environments.

Grade Significance: ACS Grade indicates that this product meets the rigorous purity standards set by the American Chemical Society, ensuring it is suitable for use in demanding laboratory and analytical 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

- Analytical Chemistry** — Used as a standardized reagent for titration processes and pH adjustment in laboratory settings.
- Water Treatment** — Utilized for precise pH control and alkalinity adjustment in high-purity water systems.
- Electronics Manufacturing** — Employed for surface cleaning and etching processes where chemical purity is critical to component integrity.
- Pharmaceuticals** — Serves as an essential acidic agent in the synthesis and purification of active pharmaceutical ingredients.
- Metal Processing** — Used for pickling and surface preparation to remove oxides and impurities from metal substrates.

STORAGE & HANDLING

Proper storage is essential because this product is corrosive to metals and can cause severe skin burns or respiratory irritation. It must be kept in a cool, well-ventilated area within its original, compatible container to prevent hazardous chemical reactions and structural damage to storage facilities.

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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