

### 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

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

- 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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Alliance Chemical | 204 South Edmond St, Taylor, Texas 76574 | 512-365-6838 | [www.alliancechemical.com](http://www.alliancechemical.com)

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