

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 utility. This solution provides a consistent concentration of 10% HCl, ensuring reliable chemical performance for your specific process requirements.

Grade Significance: Technical Grade signifies that this product is manufactured for general industrial use where high-level commercial consistency is required, but it is not intended for food, drug, or pharmaceutical 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 effectively for pH adjustment and neutralization in industrial wastewater processing.
- Metal Processing** — Serves as a reliable pickling agent for removing scale and rust from metal surfaces prior to coating or finishing.
- Laboratory Research** — Provides a standard, lower-concentration acid for routine chemical synthesis and pH buffering tasks.
- Chemical Manufacturing** — Utilized as a reagent in various production processes requiring controlled acidic environments.
- Industrial Cleaning** — Functions as a powerful cleaning agent for removing mineral deposits and inorganic buildup from heavy-duty equipment.

STORAGE & HANDLING

Proper storage is critical because this product is highly corrosive and presents a significant inhalation hazard. Containers must be kept in a cool, well-ventilated area, away from incompatible materials, to prevent the release of toxic vapors and ensure the integrity of the chemical.

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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