

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

Hydrochloric Acid 10% Technical Grade is a versatile, clear liquid solution designed for general industrial and laboratory applications. With a specific gravity of 1.047, this concentration provides a controlled acidity level suitable for various chemical processes.

Grade Significance: Technical Grade indicates that this product is formulated for industrial efficiency and cost-effectiveness where high analytical purity is not required. It is ideal for large-scale operations that prioritize consistent performance in standard chemical processes.

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 systems to ensure compliance with environmental standards.
- Metal Processing** — Applied in pickling processes to remove scale and rust from metal surfaces, preparing them for further manufacturing or coating.
- Laboratory Research** — Serves as a standard reagent for acidification, titration, and general cleaning of glassware in controlled laboratory settings.
- Chemical Manufacturing** — Acts as a precursor or reactant in the synthesis of various organic and inorganic compounds for industrial production.
- Mining and Metallurgy** — Utilized in mineral processing and metal extraction techniques to help dissolve impurities or process ore samples.

STORAGE & HANDLING

Proper storage is critical because this acid is corrosive to many metals and poses severe burn risks upon contact. It must be kept in compatible, corrosion-resistant containers to prevent leaks and structural damage, while maintaining a secure environment to avoid accidental exposure.

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

Disclaimer: The information contained herein is believed to be accurate and represents the best information currently available to us. However, Alliance Chemical makes no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.