

PRODUCT IDENTIFICATION

**Product Name:** Hydrochloric Acid 25% ACS Grade**CAS Number:** 7647-01-0**Molecular Formula:** ClH**Molecular Weight:** 36.46 g/mol**Grade:** ACS Grade**Purity / Concentration:** 25%**Synonyms:** Not Available

PRODUCT OVERVIEW

Alliance Chemical offers Hydrochloric Acid 25% in a high-purity ACS grade formulation, ideal for precise laboratory and industrial applications. This clear, colorless liquid provides a consistent concentration for reliable chemical reactions and process control.

Grade Significance: ACS Grade signifies that the product meets the rigorous purity standards set by the American Chemical Society, ensuring reliability for sensitive analytical procedures.

CERTIFICATE OF ANALYSIS — TYPICAL VALUES

Certificate of Analysis data not available for this product.

PHYSICAL & CHEMICAL PROPERTIES

Appearance	Clear, colorless to slightly yellow liquid with HCl odor	Form	Liquid
Boiling Point	108°C (20.2% azeotrope)	Melting / Freezing Point	-74°C (-101°F)
Flash Point	Not applicable	Specific Gravity	1.124
Solubility	Fully soluble in water	Molecular Formula	ClH
Molecular Weight	36.46 g/mol		

APPLICATIONS

- Analytical Chemistry** — Used as a high-purity reagent for titrations and sample preparation in research laboratories.
- Water Treatment** — Utilized for pH adjustment to maintain optimal water quality and neutralize alkaline effluent streams.
- Metal Processing** — Employed in pickling processes to remove scale and rust from metal surfaces prior to fabrication or coating.
- Pharmaceutical Manufacturing** — Acts as a critical pH regulator and reactant in the synthesis of various pharmaceutical ingredients.
- Chemical Synthesis** — Functions as a versatile acid catalyst for organic synthesis and the production of inorganic chlorides.

STORAGE & HANDLING

Due to its corrosive nature, this acid must be stored in a cool, well-ventilated area in compatible containers to prevent structural damage to storage facilities. Proper containment is essential to mitigate the risk of severe skin burns and respiratory irritation associated with hazardous vapors.

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.

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.