

PRODUCT IDENTIFICATION



Product Name: Hydrochloric Acid 20% ACS Grade

CAS Number: 7647-01-0

Molecular Formula: ClH

Molecular Weight: 36.46 g/mol

Grade: ACS Grade

Purity / Concentration: 20%

Synonyms: Not Available

PRODUCT OVERVIEW

Hydrochloric Acid 20% ACS Grade is a high-purity, clear liquid reagent designed for precise laboratory and industrial applications. With a specific gravity of 1.098 and a stable 20% concentration, this product provides reliable performance for critical chemical processes.

Grade Significance: ACS Grade signifies that the chemical meets the high-purity standards set by the American Chemical Society, ensuring it is suitable for demanding analytical and laboratory work where consistency is required.

CERTIFICATE OF ANALYSIS — TYPICAL VALUES

Certificate of Analysis data not available for this product.

PHYSICAL & CHEMICAL PROPERTIES

Appearance	Clear, colorless to slightly yellow liquid	Form	Liquid
Boiling Point	108°C (20.2% azeotrope)	Melting / Freezing Point	-74°C (-101°F)
Flash Point	Not applicable	Specific Gravity	1.098
Solubility	Fully soluble in water	Molecular Formula	ClH
Molecular Weight	36.46 g/mol		

APPLICATIONS

- Analytical Chemistry** — Used as a standardized reagent for titration and the preparation of chemical buffers in laboratory settings.
- Water Treatment** — Applied for pH adjustment and neutralization of alkaline water streams to maintain environmental compliance.
- Metal Processing** — Utilized in pickling baths to remove rust and scale from metal surfaces before coating or plating.
- Pharmaceutical Manufacturing** — Serves as an essential catalyst or reagent in the synthesis of active pharmaceutical ingredients.
- Food Processing** — Used in controlled environments for the processing of food additives and the regulation of acidity in specific food-grade applications.

STORAGE & HANDLING

Due to its corrosive nature, this acid must be stored in a cool, well-ventilated area away from incompatible materials like bases and metals. Proper containment prevents the release of irritating vapors and avoids the risk of severe skin or eye damage caused by 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.

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