

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 aqueous solution designed for precise laboratory and industrial applications. This clear, colorless to slightly yellow liquid provides a consistent 20% concentration, ensuring reliable performance across sensitive chemical processes.

Grade Significance: ACS Grade signifies that the product meets the rigorous specifications set by the American Chemical Society, guaranteeing a high level of purity suitable for analytical and laboratory use.

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 standard reagent for titration and the preparation of chemical samples where high purity is required for accurate results.
- Water Treatment** — Applied for pH adjustment and neutralization in municipal and industrial water systems to maintain optimal water chemistry.
- Metal Processing** — Utilized in pickling processes to remove rust, scale, and impurities from the surface of steel and other metal products.
- Pharmaceutical Manufacturing** — Acts as a critical intermediate or catalyst in the synthesis of various active pharmaceutical ingredients and compounds.
- Food Processing** — Employed in food-grade applications for the acidification of food products and the regeneration of ion-exchange resins.

STORAGE & HANDLING

Proper storage is essential because this acid is highly corrosive to metals and poses severe risks to skin and respiratory health. It should be kept in a cool, well-ventilated area in a compatible, tightly sealed container to prevent the release of irritating vapors and structural damage to storage facilities.

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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