

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 essential for precise chemical analysis and industrial processing. Meeting strict ACS specifications, this concentration provides a reliable balance of reactivity and stability for laboratory and manufacturing applications.

Grade Significance: ACS Grade signifies that the product meets the rigorous standards set by the American Chemical Society, ensuring it is suitable for use in high-precision laboratory and analytical work.

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 pH adjustment and titration processes where high purity is required.
- Pharmaceutical Manufacturing** — Serves as an essential reactant in the synthesis of active pharmaceutical ingredients and for neutralizing basic waste streams.
- Metal Processing** — Utilized for the pickling of steel and other metals to remove surface oxides and impurities before further fabrication.
- Water Treatment** — Applied for the regulation of pH levels in industrial water systems to prevent scaling and ensure environmental compliance.
- Academic Research** — Provides a consistent, controlled chemical environment for university-level research and experimental laboratory procedures.

STORAGE & HANDLING

Due to its corrosive nature and potential for respiratory irritation, this product must be stored in a cool, well-ventilated area in its original, compatible container. Proper containment is critical to prevent damage to metal infrastructure and to avoid dangerous reactions with incompatible materials.

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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