

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 chemical solution ideal for laboratory and industrial applications requiring precise, reliable concentration. This clear, colorless liquid is formulated to meet strict analytical standards, ensuring consistent performance in sensitive chemical processes.

Grade Significance: ACS Grade signifies that this product meets the high purity standards set by the American Chemical Society, making it suitable for rigorous laboratory use and analytical testing where impurities must be strictly controlled.

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 high-purity reagent for titrations and standard sample preparation in professional laboratories.
- Water Treatment** — Utilized for pH adjustment and neutralization of alkaline wastewater streams to maintain regulatory compliance.
- Metal Processing** — Employed for pickling and surface preparation to remove oxides and scale from metal parts prior to plating or coating.
- Pharmaceutical Manufacturing** — Acts as a critical intermediate or pH control agent during the synthesis of various active pharmaceutical ingredients.
- Food Processing** — Used in controlled food-grade applications for acidulation and the processing of starch and proteins.

STORAGE & HANDLING

Proper storage is essential to prevent the release of corrosive vapors and to maintain the integrity of the 20% concentration. Because the product is classified as a severe skin and respiratory hazard, it must be kept in a cool, well-ventilated area in a secondary containment vessel to protect against accidental spills.

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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