

PRODUCT IDENTIFICATION



Product Name: Hydrochloric Acid 20% Technical Grade

CAS Number: 7647-01-0

Molecular Formula: ClH

Molecular Weight: 36.46 g/mol

Grade: Technical Grade

Purity / Concentration: 20%

Synonyms: Not Available

PRODUCT OVERVIEW

Hydrochloric Acid 20% Technical Grade is a versatile, high-strength mineral acid solution widely utilized for various industrial and laboratory applications. This clear, colorless liquid features a specific gravity of 1.098 and provides a reliable concentration for pH adjustment and chemical synthesis.

Grade Significance: Technical Grade signifies that the product is manufactured to meet standard industrial requirements where extreme purity is not required, offering a cost-effective solution for large-scale operations.

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

- Water Treatment** — Used effectively for pH control and alkalinity adjustment to ensure water quality meets regulatory standards.
- Metal Processing** — Employed in pickling processes to remove scale and rust from steel surfaces before further manufacturing steps.
- Chemical Manufacturing** — Serves as a fundamental reagent in the synthesis of organic and inorganic compounds for various industrial sectors.
- Laboratory Research** — Acts as a standard acidifying agent for analytical testing and controlled experimental reactions.
- Textile Industry** — Used in the processing and bleaching of textile fibers to achieve desired material properties.

STORAGE & HANDLING

Proper storage is critical because this acid is highly corrosive to metals and poses severe burn risks to skin and eyes. Containers must be kept in a cool, well-ventilated area away from incompatible substances to prevent dangerous chemical reactions and structural degradation of storage vessels.

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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