

### 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

Alliance Chemical offers 20% Technical Grade Hydrochloric Acid, a reliable and versatile aqueous solution for a wide range of industrial applications. This clear to slightly yellow liquid is standardized for consistent performance, featuring a specific gravity of 1.098 to ensure predictable chemical interactions in your processes.

**Grade Significance:** Technical Grade indicates that this product is manufactured for general industrial utility where high-volume performance is required but pharmaceutical or food-grade purity is unnecessary.

### CERTIFICATE OF ANALYSIS — TYPICAL VALUES

*Certificate of Analysis data not available for this product.*

### PHYSICAL & CHEMICAL PROPERTIES

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

### APPLICATIONS

- Water Treatment** — Utilized for pH adjustment and neutralization of alkaline water streams in industrial wastewater facilities.
- Metal Processing** — Commonly used for pickling steel and other metals to remove rust, scale, or impurities from the surface prior to further manufacturing.
- Chemical Manufacturing** — Acts as a key reagent in the synthesis of organic and inorganic compounds for various industrial chemical productions.
- Oil and Gas** — Employed in acidizing operations to dissolve carbonate minerals in rock formations, helping to stimulate oil and gas production.
- Laboratory Research** — Used as a standard acidifying agent for routine laboratory bench work and analytical testing procedures.

### STORAGE & HANDLING

Proper storage is critical because this acid is highly corrosive and presents significant inhalation risks. It must be kept in a cool, well-ventilated area in secondary containment to prevent severe skin burns and eye damage should a leak or container failure occur.

## 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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