

# HYDROCHLORIC ACID (HCL)

**HCl**

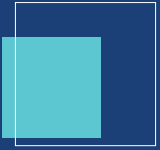
HCl



## Industrial-Grade Hydrochloric Acid Engineered for Reliability, Purity & Industrial Performance.

World Acid produces high-quality hydrochloric acid designed to support large-scale industrial operations across refining, water treatment, manufacturing, metal processing, and petrochemical sectors. Manufactured through controlled production systems using the Global Standard Process, our hydrochloric acid delivers stable concentration, high purity, and dependable operational performance for demanding industrial applications.

Supported by integrated logistics, dedicated storage infrastructure, and continuous production capability, World Acid ensures reliable bulk supply tailored to industrial requirements across Iraq and the region.



## PRODUCT OVERVIEW

Hydrochloric Acid (HCl), also known as Muriatic Acid, is a strong and highly corrosive mineral acid widely used in industrial processing, refining, chemical manufacturing, water treatment, and metal treatment operations.

At World Acid, our hydrochloric acid production is built around:

- Stable concentration control
- High-purity output
- Operational reliability
- Safe industrial handling
- Continuous supply capability

Our production systems are designed to support industries where precision, performance, and dependable chemical availability are critical to operational continuity.

# KEY PRODUCT ADVANTAGES

## High Purity & Stable Concentration

Produced through the Global Standard Process to achieve consistent concentration levels, low impurity content, and dependable industrial performance.

## Reliable Industrial Supply

Continuous production operations supported by strategically managed storage systems and integrated logistics infrastructure.

## Consistent Product Quality

Controlled operational systems and continuous monitoring help maintain stable specifications across every production batch.

## Operational Efficiency

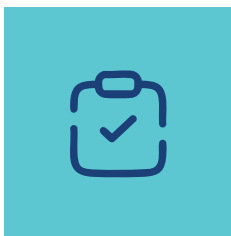
Designed for high-performance industrial reactions, cleaning operations, treatment systems, and refining applications.

## Integrated Logistics Capability

Dedicated tanker fleet and controlled transportation systems supporting safe bulk delivery across Iraq.

## Fast Local Delivery

24–48-hour delivery capability supported by optimized logistics and operational dispatch systems.



## PRODUCT SPECIFICATIONS

### PROPERTY SPECIFICATION

Chemical Name	Hydrochloric Acid
Chemical Formula	HCl
CAS No.	7647-01-0
Alternative Name	Muriatic Acid
Appearance	Clear, Colorless
Standard Concentration	~32% (Standard Grade)
Concentration Range	32% – 34%
Specific Gravity	~1.18
Boiling Point	~80–90°C
Odor	Sharp, pungent odor
Solubility	Fully miscible in water
pH	< 1 (concentrated solution)
Production Technology	Mannheim Process
Purity Level	High Purity / Low Impurity Content



## CHEMICAL CHARACTERISTICS

- Strong inorganic acid
- Highly corrosive
- Fully dissociates into hydrogen and chloride ions
- Highly reactive with metals and alkaline materials
- Stable under controlled storage conditions
- Effective in industrial cleaning and treatment applications

# PRODUCTION PROCESS

World Acid utilizes the Global Standard Process to produce hydrochloric acid through controlled industrial conversion systems designed to ensure operational efficiency, product consistency, and dependable quality.

## MAIN PRODUCTION STAGES

**RAW MATERIAL PROCESSING**

**FURNACE HEATING**

**HCL GAS COLLECTION**

**COOLING & ABSORPTION**

## PRODUCTION PERFORMANCE

- Stable concentration control
- Low impurity content
- Controlled reaction systems
- Continuous process monitoring
- Reliable industrial-grade quality



**World Acid**  
Your Trusted Chemical Partner

## **INDUSTRIAL APPLICATIONS**

World Acid hydrochloric acid supports a broad range of industrial sectors and operational processes requiring reliable chemical performance and controlled quality standards.

### **OIL REFINERIES, GAS TREATMENT & PETROCHEMICAL INDUSTRIES**

Supports refining operations, industrial cleaning, desulfurization processes, and chemical treatment systems.

### **WATER TREATMENT & PURIFICATION SYSTEMS**

Used in pH adjustment, purification systems, industrial wastewater treatment, and water processing applications.

### **STEEL & METAL PROCESSING INDUSTRIES**

Widely used for steel pickling, rust removal, surface preparation, and metal cleaning operations.

### **INDUSTRIAL MANUFACTURING**

Supports chemical processing, industrial production systems, and manufacturing operations requiring controlled acid treatment.

### **CLEANING & INDUSTRIAL MAINTENANCE**

Used in industrial-scale cleaning, descaling, and process maintenance applications.

# PACKAGING & SUPPLY OPTIONS

World Acid provides flexible supply solutions designed to support industrial demand, operational continuity, and large-scale processing requirements.

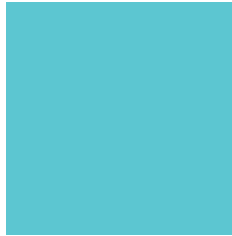
## SUPPLY OPTIONS

- Bulk tanker delivery
- Industrial storage transfer
- Contract-based supply programs
- Scheduled industrial delivery systems

## LOGISTICS INFRASTRUCTURE

- Dedicated FRP tanker fleet
- Controlled transportation systems
- Advanced ofloading capability
- Efficient routing and dispatch operations





# PRODUCTION CAPACITY & OPERATIONAL STRENGTH

## OPERATIONAL CAPABILITY

Annual Production Capacity  
Storage Capacity  
Operations  
Operational Reliability  
Delivery Coverage  
Local Delivery Timeline

## CAPACITY

~36,000 Tons  
~2,000 Tons  
24/7 Continuous Operations  
99.5%  
Across Iraq & Internationally  
24–48 Hours



# HCl

# WHY CHOOSE WORLD ACID HYDROCHLORIC ACID?

## ADVANCED MANNHEIM PRODUCTION TECHNOLOGY

Manufactured through controlled Global Standard Process systems ensuring stable concentration, low impurities, and reliable industrial performance.

## CONSISTENT INDUSTRIAL PERFORMANCE

Designed to deliver dependable operational efficiency across refining, treatment, cleaning, and manufacturing applications.

## INTEGRATED SUPPLY CHAIN

Production, storage, logistics, and transportation managed through one coordinated operational system.

## **RELIABLE BULK AVAILABILITY**

Large-scale production capability supporting continuous industrial demand and operational continuity.

## **STRATEGIC LOCAL ADVANTAGE**

Operationally positioned in Sulaymaniyah for faster regional access, reduced lead times, and dependable local support.

## **SAFETY-FOCUSED HANDLING & TRANSPORTATION**

Strict operational controls and monitored transportation systems supporting safe industrial delivery and handling.

# HEALTH, SAFETY & ENVIRONMENTAL RESPONSIBILITY

## SAFETY-FOCUSED OPERATIONS

Safety systems are integrated throughout production, storage, handling, and transportation operations to help protect personnel, facilities, and surrounding environments.

## OPERATIONAL SAFETY SYSTEMS INCLUDE:

- Automated shutdown systems
- Pressure and temperature monitoring
- Leak detection technologies
- Emergency response procedures
- Controlled handling and storage systems

# ENVIRONMENTAL CONTROL SYSTEMS

## CLOSED-LOOP & EMISSION-CONTROLLED PRODUCTION

Production facilities utilize:

- Closed-loop operational systems
- Gas scrubbing units
- Emission-control technologies
- Environmental monitoring systems

These systems help minimize atmospheric releases and support environmentally responsible industrial operations.

## **WATER CONSERVATION SYSTEMS**

Condenser technologies and dry cooling systems are utilized to reduce operational water consumption and improve environmental efficiency.

## **CONTINUOUS MONITORING & COMPLIANCE**

Real-time operational monitoring combined with routine inspections, safety drills, and documented procedures helps maintain continual compliance with industrial safety and environmental standards.

## **RESPONSIBLE OPERATIONS & TRACEABILITY**

Full operational documentation across production, material handling, logistics, and safety procedures supports traceability, accountability, and responsible industrial operations.

# STORAGE & HANDLING RECOMMENDATIONS

Hydrochloric acid requires controlled handling and appropriate storage systems due to its corrosive nature.

## RECOMMENDED STORAGE CONDITIONS

- Store in specialized non-metal tanks
- Maintain controlled ventilation systems
- Avoid incompatible materials and metals
- Use corrosion-resistant handling systems

## SAFETY CONSIDERATIONS

- Strong odor assists early leak detection
- Requires controlled handling procedures
- Appropriate PPE required during handling
- Emergency response systems integrated within operations



## QUALITY ASSURANCE

World Acid maintains strict operational and quality control procedures across all stages of production and supply.

### Our quality assurance systems include:

- Continuous batch monitoring
- Concentration consistency checks
- Operational control procedures
- Documentation and traceability systems
- Compliance-focused quality standards

### Space reserved for:

- ISO Certifications
- Quality Certifications
- Compliance Documentation
- Laboratory Testing Reports

# RELIABLE SUPPLY FOR INDUSTRIAL OPERATIONS

At World Acid, hydrochloric acid supply is built around operational consistency, dependable quality, and continuous availability.

From production to delivery, every stage is managed through integrated operational systems designed to support industrial performance, operational safety, and long-term supply reliability across Iraq and the region.





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Your Trusted Chemical Partner



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Sulaymaniyah, industrial area of Arbat