

POTASSIUM SULFATE

(K_2SO_4)

K₂SO₄

K_2SO_4

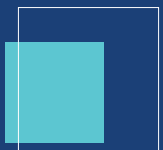


Industrial-Grade Potassium Sulfate Crafted for Purity, Reliability & Agricultural Performance

World Acid produces high-quality Potassium Sulfate (K_2SO_4), also known as Sulfate of Potash (SOP), designed to support modern agricultural and industrial operations requiring high potassium content, low chloride levels, and dependable product consistency.

Manufactured through the Global Standard Process under controlled operational systems, our potassium sulfate delivers stable quality, high purity, and reliable performance for fertilizer production, sensitive crop applications, industrial processing, and specialty chemical operations.

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



PRODUCT OVERVIEW

Potassium Sulfate (K_2SO_4), also known as Sulfate of Potash (SOP), is a premium inorganic salt widely used in agriculture, fertilizer manufacturing, industrial processing, and specialty applications requiring high potassium and sulfur content with minimal chloride levels.

At World Acid, our potassium sulfate production is built around:

- High potassium concentration
- Low chloride content
- Stable product quality
- Operational reliability
- Continuous supply capability

Our production systems are designed to support industries and agricultural sectors where performance, crop safety, and dependable chemical availability are essential.

KEY PRODUCT ADVANTAGES

High Potassium Content:

Produced to deliver elevated K_2O levels that support strong crop development, yield improvement, and industrial efficiency.

Low Chloride Formula:

Designed with ultra-low chloride content, making it ideal for chloride-sensitive crops and specialty agricultural applications.

Consistent Product Quality:

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

Excellent Solubility:

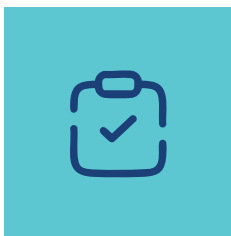
Highly water-soluble and suitable for direct application, blending, fertigation systems, and industrial use.

Reliable Industrial Supply:

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

Fast Local Delivery:

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



PRODUCT SPECIFICATIONS

PROPERTY SPECIFICATION

Chemical Name	Potassium Sulfate
Chemical Formula	K_2SO_4
Alternative Name	Sulfate of Potash (SOP)
Appearance	White crystalline powder
CAS No.	7778-80-5
Potassium Content	> 41.5%
K ₂ O Content	> 50%
Sulfur Content	17% – 19%
Chloride Content	< 2%
Moisture Content	< 0.5%
Bulk Density	~ 1.35 g/cm ³
Solubility	Highly soluble in water
pH	>2.5
Production Technology	Mannheim Process
Purity Level	High Purity / Low Impurity Content



CHEMICAL CHARACTERISTICS

- High potassium and sulfur source
- Low chloride formulation
- Free-flowing crystalline material
- Suitable for sensitive crops
- Stable under controlled storage conditions
- Compatible with modern fertigation and blending systems

PRODUCTION PROCESS

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

MAIN PRODUCTION STAGES

RAW MATERIAL PROCESSING

FURNACE HEATING

REACTION CONVERSION

COOLING & ABSORPTION

QUALITY CONTROL

PRODUCTION PERFORMANCE

- Stable K₂O concentration
- Low impurity content
- Controlled reaction systems
- Continuous operational monitoring
- Reliable industrial-grade quality



World Acid
Your Trusted Chemical Partner

INDUSTRIAL APPLICATIONS

World Acid potassium sulfate supports a broad range of agricultural and industrial sectors requiring reliable potassium and sulfur supply with low chloride content.

AGRICULTURE & FERTILIZER PRODUCTION

Widely used as a premium chloride-free fertilizer supporting fruits, vegetables, tobacco, potatoes, and other sensitive crops.

FERTIGATION & GREENHOUSE SYSTEMS

Suitable for drip irrigation, fertigation systems, hydroponics, and precision agricultural operations.

INDUSTRIAL MANUFACTURING

Used in specialty chemical production, industrial processing, and manufacturing operations requiring potassium compounds.

GLASS & CONSTRUCTION INDUSTRIES

Supports glass manufacturing, gypsum production, and selected industrial processing applications.

PACKAGING & SUPPLY OPTIONS

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

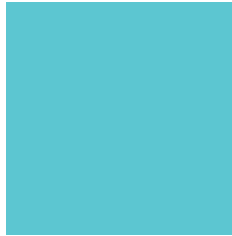
SUPPLY OPTIONS

- Bulk supply
- Jumbo bags
- Industrial packaging systems
- Contract-based supply programs
- Scheduled industrial delivery systems

LOGISTICS INFRASTRUCTURE

- Dedicated transportation fleet
- Controlled storage systems
- Efficient routing and dispatch operations
- Local delivery capability





PRODUCTION CAPACITY & OPERATIONAL STRENGTH

OPERATIONAL CAPABILITY

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

CAPACITY

~8,700 Tons
~1,500 Tons
24/7 Continuous Operations
99.5%
Across Iraq & Internationally
24–48 Hours



WHY CHOOSE WORLD ACID HYDROCHLORIC ACID?

ADVANCED MANNHEIM PRODUCTION TECHNOLOGY

Manufactured through controlled Global Standard Process systems ensuring stable potassium concentration, low chloride levels, and reliable product performance.

CONSISTENT INDUSTRIAL PERFORMANCE

Designed to support crop development, soil health, and high agricultural productivity.

INTEGRATED SUPPLY CHAIN

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

RELIABLE BULK AVAILABILITY

Large-scale production capability supporting continuous agricultural and industrial demand.

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

Production facilities utilize closed-loop operational systems, gas scrubbing units, emission-control technologies, and environmental monitoring systems to minimize atmospheric releases and support environmentally responsible 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

Potassium sulfate should be stored under controlled dry conditions to maintain product quality and free-flowing performance.

RECOMMENDED STORAGE CONDITIONS

- Store in dry, well-ventilated areas
- Protect from excessive moisture and humidity
- Use appropriate industrial storage systems
- Avoid contamination with incompatible materials

SAFETY CONSIDERATIONS

- Use appropriate PPE during handling
- Avoid excessive dust generation
- Maintain proper storage and transportation procedures
- Follow operational safety guidelines



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
- K₂O concentration consistency checks
- Moisture and chloride testing
- 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, potassium sulfate 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 agricultural performance, industrial efficiency, operational safety, and long-term supply reliability across Iraq and the region.





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