

# **Potassium Permanganate Market Report by Application (Water Treatment, Wastewater Treatment, Chemicals Manufacturing, Aquaculture, Metal Processing, Air and Gas Purification, and Others), Grade (Free Flowing Grade, Technical Grade, Pharmaceutical Grade), and Region 2024-2032**

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## **Abstracts**

The global potassium permanganate market size reached 313.9 Kilo Tons in 2023. Looking forward, IMARC Group expects the market to reach 600.6 Kilo Tons by 2032, exhibiting a growth rate (CAGR) of 7.3% during 2024-2032. The growing need to prevent the spread of infections, rising focus on ore flotation and wastewater treatment, and increasing demand to control and prevent plant diseases and pests are some of the major factors propelling the market.

Potassium permanganate is a powerful chemical compound that is known for its versatile applications. It has oxidizing properties, which makes it an essential component in chemical synthesis processes and the purification of certain organic compounds. It appears as a dark purple crystalline substance and is widely used across various industries. It plays a crucial role as an analytical reagent for titrations and testing procedures. As it effectively removes impurities and contaminants from water sources, the demand for potassium permanganate is rising across the globe.

At present, the increasing utilization of potassium permanganate in the bleaching process of polyester is bolstering the growth of the market. Besides this, the growing demand for potassium permanganate in the chemical industry, as it acts as an oxidizing agent in chemical synthesis processes, is offering a positive market outlook. In line with this, the rising awareness about cleaner water among individuals across the globe is

supporting the growth of the market. Apart from this, the increasing adoption of chemical solutions that ensure improved adhesion of coatings and finishes is contributing to the growth of the market. Furthermore, the rising demand for denim clothing among individuals worldwide is strengthening the growth of the market. Moreover, favorable government initiatives to promote safer and cleaner water are propelling the growth of the market.

#### Potassium Permanganate Market Trends/Drivers:

##### Rising need to prevent the spread of infections

The rising need to prevent the spread of infections among individuals is propelling the growth of the market. In addition, potassium permanganate is widely recognized in the healthcare industry due to its potent disinfectant properties and antiseptic applications. In healthcare facilities, it is used for wound care and assists in effectively disinfecting and treating various skin conditions among individuals. Apart from this, it plays an essential role in sterilizing medical equipment and instruments and ensuring aseptic conditions in hospitals and clinics. The rising focus on infection control due to the increasing awareness among the masses is supporting the growth of the market. Furthermore, it is effective in preventing the spread of infections and ensuring the safety of the patient.

##### Increasing demand to control and prevent plant diseases and pests

The increasing demand for potassium permanganate to control and prevent plant diseases and pests is contributing to the growth of the market. Besides this, farmers are facing various challenges in safeguarding their crops against various diseases, fungi, and pests that can significantly impact yield and quality. In addition, potassium permanganate acts as a powerful disinfectant and fungicide in the agriculture sector. It helps eliminate harmful pathogens and molds from the soil and plant surfaces and reduces the risk of infections that can deteriorate crops. Additionally, it serves as a natural pesticide against a range of pests, including nematodes and insects. There is a rise in the need for sustainable pest control methods across the globe.

##### Growing focus on ore flotation and wastewater treatment

The growing focus on ore flotation and wastewater treatment is bolstering the growth of the market. In line with this, there is an increase in the recognition of the importance of sustainable and efficient resource management in various industries, such as mining and environmental management. In the mining sector, ore flotation is a crucial step in

the extraction of valuable minerals from ore deposits. Potassium permanganate plays a vital role in this process by acting as an effective depressant and selectively inhibiting the flotation of undesired minerals. This enhances the efficiency of mineral separation and improves the overall ore recovery rate, resulting in cost savings and reduced environmental impact. Simultaneously, it is widely utilized in wastewater treatment to reduce the levels of heavy metals and disinfect wastewater.

#### Potassium Permanganate Industry Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global potassium permanganate market report, along with forecasts at the global and regional levels for 2024-2032. Our report has categorized the market based on application and grade.

#### Breakup by Application:

- Water Treatment
- Wastewater Treatment
- Chemicals Manufacturing
- Aquaculture
- Metal Processing
- Air and Gas Purification
- Others

Water treatment represents the largest market segment

The report has provided a detailed breakup and analysis of the market based on the application. This includes water treatment, wastewater treatment, chemicals manufacturing, aquaculture, metal processing, air and gas purification, and others. According to the report, water treatment represented the largest segment. In water treatment, this chemical compound plays a critical component by acting as a potent oxidizing agent. When introduced into water, it releases manganese dioxide, which serves as an efficient adsorbent for impurities, organic matter, and contaminants. This process helps remove harmful substances, including iron, sulfur, and various microorganisms, from water sources. It effectively eliminates taste and odor issues, which makes the water safe and pleasant to consume. Furthermore, it aids in the removal of dissolved iron and manganese and prevents unsightly discoloration of water. It is effective in disinfection and control of algae and bacteria that benefit in maintaining water quality standards.

### Breakup by Grade:

Free Flowing Grade  
Technical Grade  
Pharmaceutical Grade

Free flowing grade accounts for the majority of the market share

The report has provided a detailed breakup and analysis of the market based on the grade. This includes free flowing grade, technical grade, and pharmaceutical grade. According to the report, free flowing grade represented the largest segment. The free flowing grade of potassium permanganate is a specialized formulation that offers distinct advantages in handling and application. This grade is characterized by its fine particle size and exceptional flowability, which enables it to dissolve quickly and evenly in water. Its free-flowing nature minimizes the risk of clumping or clogging, which makes it highly suitable for various industries and applications. In addition, it is easy to use in water treatment processes and ensures rapid and uniform dispersion in water. This property of the chemical is particularly valuable in municipal water treatment plants and other facilities where precise dosing and consistent performance are essential.

### Breakup by Region:

China  
United States  
European Union  
India  
Others

China exhibits a clear dominance, accounting for the largest potassium permanganate market share

The market research report has also provided a comprehensive analysis of all the major regional markets, which include China, United States, European Union, India, and others. According to the report, China accounted for the largest market share.

China held the biggest market share due to the presence of advanced manufacturing infrastructure for chemicals. In line with this, the easy access to essential raw materials in China is impelling the growth of the market. Apart from this, the increasing popularity of maintaining sanitization is contributing to the growth of the market. In addition, the

rising awareness about the importance of clean water among individuals is propelling the growth of the market in the country.

#### Competitive Landscape:

Key players in the market are extensively investing to expand their production capacity by upgrading existing facilities and constructing new manufacturing units to ensure a consistent supply to their customers. In line with this, major manufacturers are ensuring the quality and purity of products by implementing stringent quality control measures to meet regulatory requirements and maintain customer trust. Apart from this, various companies are investing in research and development (R&D) activities to improve the quality of potassium permanganate and explore new applications. This includes developing more efficient production processes and innovative formulations for specific industries. Furthermore, they are adopting greener manufacturing practices to reduce waste, energy consumption, and emissions.

The report has provided a comprehensive analysis of the competitive landscape in the market. Detailed profiles of all major companies have also been provided. Some of the key players in the market include:

Chongqing Changyuan Chemical Corporation Limited  
Carus Corporation  
Chongqing Chagyuan Group Limited  
Groupstars Chemical (Yunnan) China L.L.C  
Zunyi Shuangyuan Chemical Group Co., Ltd  
Organic Industries Pvt Ltd  
Libox Chem Pvt Ltd.  
Guangdong Meixian Hanghai Manganese Chemical Plant  
Universal Chemicals & Industries Pvt Ltd

#### Recent Developments:

In 2020, Carus Chemical announced the purchase of Industrial Quimica del Nalon with an aim to develop its market for potassium permanganate in Europe.

#### Key Questions Answered in This Report

1. What was the size of the global potassium permanganate market in 2023?
2. What is the expected growth rate of the global potassium permanganate market during 2024-2032?
3. What has been the impact of COVID-19 on the global potassium permanganate

market?

4. What are the key factors driving the global potassium permanganate market?
5. What is the breakup of the global potassium permanganate market based on the grade?
6. What is the breakup of the global potassium permanganate market based on the application?
7. What are the key regions in the global potassium permanganate market?
8. Who are the key players/companies in the global potassium permanganate market?

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