

Potassium Permanganate Market Size and Share Outlook - Forecast Trends and Growth Analysis Report (2025-2034)

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Report description:

The global potassium permanganate market, valued at USD 1226.30 Million in 2024 , has experienced significant growth due to its widespread use in water purification to remove contaminants and enhance water quality. The market is projected to grow at a compound annual growth rate (CAGR) of 10.30% from 2025 to 2034, potentially reaching USD 3268.53 Million by 2034 , driven by increasing industrial applications and growing health concerns.

Global Potassium Permanganate Market Growth

The potassium permanganate market growth is boosted due to its many key benefits. In water treatment, it is essential for eliminating contaminants, ensuring clean water. As a disinfectant, it purifies drinking water, sewage, and wastewater systems. In agriculture, it controls plant diseases and pests, supporting healthier crops. It also acts as an antiseptic, treating skin conditions such as eczema and fungal infections. Furthermore, potassium permanganate is a potent oxidising agent used in various chemical processes across industries. The Australian Commission on Safety and Quality in Health Care reported 21,848,005 antimicrobial prescriptions supplied under PBS in 2022.

The opportunities in the potassium permanganate market are driven by its wide-ranging applications across various sectors. In the textile industry, it is used for dyeing and bleaching fabrics, improving their quality. It is used in the food industry to sanitise processing equipment and surfaces. The chemical manufacturing sector relies on it as a precursor for synthesising other chemicals. In agriculture and aquaculture, it effectively controls fungal diseases, while it also plays a role in soil remediation. Additionally, potassium permanganate is effective in deodorising and eliminating unpleasant odours in various environments.

Key Trends and Recent Developments

The potassium permanganate market is expanding, fueled by its applications in water treatment and purification, agricultural

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uses, healthcare, and pharmaceuticals, as well as various industrial applications.

October 2024

A new uranium-free potassium permanganate-based metal staining protocol was introduced, enabling high-resolution imaging of complex cell/tissue structures in non-conductive specimens using scanning electron microscopy. This approach avoided harmful uranium compounds, improving electron microscopy applications, and allowing multiscale imaging, from large cell architectures to intricate subcellular ultrastructures.

June 2024

An experimental investigation was conducted on strengthening Zea mays root fibres for biodegradable composite materials using potassium permanganate treatment. Typically regarded as agricultural waste, Zea mays (Zm) root fibres can be utilised as reinforcing agents in polymer matrices to create structural composite materials.

December 2023

As of December 2023, the Department of Agriculture, Fisheries, and Forestry reported that 55% of Australia's land was used for agriculture. The growing adoption of modern farming practices in developing countries is further boosting the demand for potassium permanganate in the agricultural sector.

February 2023

Camfil has launched CamPure 8 media in the U.S., enhancing availability of potassium permanganate-based filtration for air and water treatment. The product, designed for odor and corrosion control, uses activated alumina to improve molecular filtration across various industries, ensuring better environmental management and air quality.

Water Treatment and Purification Driving the Demand of the Potassium Permanganate Market

The growing global demand for clean water is driving the increased use of potassium permanganate in water treatment. It effectively removes contaminants, organic matter, and dissolved iron and manganese. With rising concerns over water scarcity and pollution, potassium permanganate has become crucial in municipal and industrial water purification. In India, the Water Information Management System (WIMS) has recently been optimised with improved architecture and telemetry to enable more efficient data reading, decoding, and processing from over 10,000 stations. The system has been expanded to enhance resource management, database performance, and overall system architecture.

Agricultural Applications are Fuelling Potassium Permanganate Market Growth

Potassium permanganate is gaining popularity in agriculture due to its effectiveness in controlling plant diseases and pests. As both a fungicide and soil disinfectant, it is extensively used in conventional and organic farming. It treats fungal infections, controls pests, and supports seed treatments. With increasing emphasis on sustainable agriculture and reducing pesticide use, potassium permanganate provides an eco-friendly alternative.

Pharmaceutical and Healthcare Use is Impacting Potassium Permanganate Market Revenue

The demand for potassium permanganate in the pharmaceutical and healthcare sectors is increasing due to its antiseptic and disinfectant properties. It is widely used in dermatology to treat conditions like eczema, fungal infections, and acne, and in wound

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care to clean and disinfect open wounds. According to the National Health Expenditure Account (NHEA), US healthcare spending rose by 4.1% to USD 4.5 trillion in 2022, further driving demand. Its role in managing skin conditions continues to grow, particularly with the rise in home care and outpatient treatments.

Industrial Applications Boosting Opportunities in the Potassium Permanganate Market

The use of potassium permanganate is expanding across various industries, such as textiles, chemicals, and mining. In textiles, it plays a key role in dyeing, bleaching, and oxidation processes, ensuring top-quality finishes. In the chemical sector, it acts as a reagent in critical reactions, including the synthesis of other chemicals. Common applications include oil and gas well production water treatment (17.0%), air and gas purification (11.0%), chemical manufacturing (3.6%), remediation (1.7%), metal processing (0.3%), and other uses (7.5%), according to the USITC, 2021.

Global Potassium Permanganate Market Trends

The potassium permanganate market revenue is impacted by its cost-effective solutions across various sectors, providing affordable and efficient methods for water treatment, disinfection, and waste management. It is used in industrial waste treatment to break down pollutants, and in sewage treatment to reduce harmful chemicals such as hydrogen sulfide. The compound is biodegradable, breaking down into non-toxic products, ensuring environmental safety. It also helps extend the lifespan of materials by preventing rusting and corrosion, particularly in industries dealing with metal components. Additionally, it is used in personal care to treat skin conditions such as acne and dermatitis. According to Invest India, the total market size for beauty, personal care, and hygiene was valued at USD 15.05 billion in FY22.

The growth of the potassium permanganate market is also supported by its antimicrobial properties, making it effective in protecting against bacteria and viruses, thus boosting its demand in medical and personal care products. Its antiseptic qualities have led to increased use in pharmaceuticals. The expanding industrial applications, combined with rising health concerns, are driving global demand for potassium permanganate.

Global Potassium Permanganate Industry Segmentation

The EMR's report titled "Global Potassium Permanganate Market Report and Forecast 2025-2034" offers a detailed analysis of the market based on the following segments:

Market Breakup by Grade

- Free Flowing Grade
- Technical Grade
- Pharmaceutical Grade

Market Breakup by Application

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

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Market Breakup by Region

- North America
- Europe
- Asia Pacific
- Latin America
- Middle East and Africa

Global Potassium Permanganate Market Share

According to the potassium permanganate market analysis, aquaculture benefits greatly from potassium permanganate, which is used to manage water quality and control diseases in fish populations. Its oxidising properties help reduce harmful bacteria and parasites, fostering healthier aquatic environments. This contributes to higher yields and better-quality seafood, supporting the expanding aquaculture industry. Syndel introduced potassium permanganate in a 55 lb bucket, serving as an oxidising agent for disinfecting hatcheries and aquaculture facilities. It also functions as a water treatment additive, reacting with organic matter like algae, bacteria, and specific parasites in ponds.

The growth of the potassium permanganate market is further driven by its use in metal processing, where it acts as an effective oxidising agent for surface treatment and cleaning. It helps remove impurities, improving the quality and longevity of metal products. Additionally, potassium permanganate is used as a regeneration chemical to eliminate iron and hydrogen sulfide (the rotten egg smell) from well water through a "Manganese Greensand" filter.

Competitive Landscape

The potassium permanganate market key players specialise in producing a wide range of chemicals, including potassium permanganate, which is utilised in water treatment, agriculture, pharmaceuticals, and industrial applications. These companies are dedicated to delivering high-quality products that meet international standards, serving both domestic and global markets. They prioritise sustainability by adopting eco-friendly manufacturing practices and minimising environmental impact.

Changyuan Group

Headquartered in China and established in 1998, Changyuan Group is a leading producer of potassium permanganate. The company specialises in manufacturing a range of chemicals used in water treatment, textiles, and industrial applications, focusing on high-quality products and sustainable practices.

Carus Group Inc.

Founded in 1984 and based in the United States, Carus Group is a prominent supplier of specialty chemicals, including potassium permanganate. The company serves various industries, such as water treatment, agriculture, and chemicals, with a strong emphasis on environmental sustainability and innovative solutions.

Organic Industries Pvt. Ltd.

Established in 1986 and headquartered in India, Organic Industries Pvt. Ltd. produces a wide range of chemicals, including potassium permanganate. The company focuses on delivering eco-friendly products for industries such as agriculture, water treatment, and chemicals, while maintaining high quality and sustainability standards.

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B2Brazil

It was founded in 2010 and is a Brazilian business-to-business platform that connects buyers and sellers across industries, including chemicals like potassium permanganate. Headquartered in Sao Paulo, it facilitates global trade, offering a wide range of products to enhance international business opportunities.

Other key players in the potassium permanganate market report are Libox Chem India Pvt. Ltd and Seidler Chemical Co, Inc., among others.

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