

Water Treatment & Purification Chemicals Market Forecasts to 2034 – Global Analysis By Product Type (Coagulants & Flocculants, Biocides & Disinfectants, Scale Inhibitors & Corrosion Inhibitors, Chelating Agents, pH Adjusters & Stabilizers, Anti-Foaming Agents and Other Product Types), End User and By Geography

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Abstracts

According to Statistics MRC, the Global Water Treatment & Purification Chemicals Market is accounted for \$17.78 billion in 2026 and is expected to reach \$24.33 billion by 2034 growing at a CAGR of 4.0% during the forecast period. Water treatment and purification chemicals are essential for providing clean and safe water across industries, municipalities, and homes. They include substances like coagulants, disinfectants, pH regulators, and corrosion preventatives, which eliminate contaminants, microbes, and harmful particles. These chemicals improve water quality, protect infrastructure from corrosion and scaling, and ensure regulatory compliance. Increasing industrial activities, stringent water quality norms, and concerns about water scarcity are boosting the demand for effective water treatment solutions. Technological innovations and emphasis on sustainable water management further support the consistent expansion of this market globally.

According to the United Nations World Water Development Report (UNESCO, 2023), 80% of the world's wastewater is released untreated into the environment. This creates regulatory and environmental pressure for industries and municipalities to adopt treatment solutions, where purification chemicals are essential.

Market Dynamics:

Water Treatment & Purification Chemicals Market Forecasts to 2034 – Global Analysis By Product Type (Coagulant...

Driver:**Rising water scarcity**

Increasing freshwater shortages, driven by population growth, urban development, and climate shifts, are amplifying the requirement for water treatment solutions. Chemicals for purification enable water recycling and reuse across industries, agriculture, and municipalities. They remove harmful substances, microbes, and metals, ensuring safety and compliance. Investments in water infrastructure by governments and private organizations aim to combat scarcity, further stimulating demand for treatment chemicals. Efficient water utilization and protection of public health are central concerns, making water purification chemicals vital and driving consistent growth in the market globally.

Restraint:**High cost of chemicals**

Expensive water treatment chemicals pose a significant challenge to market growth. Specialty chemicals like coagulants, disinfectants, and corrosion inhibitors demand high investment, which can burden small and medium enterprises. Ongoing expenses for procurement and maintenance, coupled with volatile raw material costs, such as chlorine and polymers, increase financial pressure. In developing countries, budget limitations restrict widespread adoption of chemical-based water purification systems. This high-cost factor reduces the implementation of advanced treatment technologies, slowing market penetration and restraining growth across industrial and municipal water treatment sectors globally.

Opportunity:**Growing demand for safe drinking water**

Increasing concern over water contamination and waterborne illnesses is driving opportunities in the water treatment chemicals sector. Public and private entities, along with governments, are investing in chemical solutions to provide safe drinking water. Rapid urban growth and expanding populations heighten the need for treated water, particularly in emerging economies. Chemicals such as coagulants, disinfectants, and pH regulators play a vital role in removing impurities and pathogens. This growing

emphasis on public health motivates innovation in chemical treatments. The heightened focus on safe water access offers substantial growth prospects for the water treatment and purification chemicals market.

Threat:

Competition from alternative technologies

Emerging water treatment methods, including UV sterilization, membrane systems, and bio-based approaches, threaten conventional chemical-based markets. These solutions often minimize chemical usage, providing eco-friendly, efficient, and cost-effective alternatives. Municipalities and industrial users increasingly prefer non-chemical methods for water purification, disinfection, and wastewater management. Growing adoption of such technologies can reduce the demand for traditional treatment chemicals. Manufacturers face pressure to innovate or risk losing market share. Inability to adapt to the transition toward chemical-free or low-chemical processes constitutes a major threat, challenging the relevance and sustainability of the traditional water treatment and purification chemicals industry.

Covid-19 Impact:

The COVID-19 outbreak had a notable effect on the water treatment chemicals market, introducing challenges and growth opportunities. Supply chain disruptions and operational slowdowns in industries and municipal plants caused uneven demand for chemical products. Temporary restrictions affected procurement and usage of purification chemicals. Simultaneously, the focus on hygiene, sanitation, and safe drinking water increased the need for disinfectants, coagulants, and other chemical solutions. Public health measures prompted government and healthcare investment in water safety to limit viral spread. Ultimately, the pandemic highlighted the critical role of chemical-based water treatment, boosting its long-term adoption and market resilience.

The coagulants & flocculants segment is expected to be the largest during the forecast period

The coagulants & flocculants segment is expected to account for the largest market share during the forecast period because they are critical for eliminating suspended particles, impurities, and turbidity from water. Used extensively in municipal, industrial, and wastewater treatment, these chemicals enhance sedimentation and purification efficiency. Their ability to improve water clarity, minimize contaminants, and facilitate

further treatment processes makes them highly sought after. Given their wide-ranging applications and the growing need for safe, treated water in both industrial and urban areas, coagulants and flocculants maintain the largest market share, highlighting their central role in water purification and treatment operations globally.

The oil & gas segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the oil & gas segment is predicted to witness the highest growth rate because of its increasing focus on effective water management. Exploration, refining, and production activities produce significant wastewater that must be treated to control impurities, scaling, and corrosion. Environmental regulations and sustainability initiatives push companies to adopt advanced chemical solutions. Moreover, recycling and reusing process water in onshore and offshore facilities heighten chemical demand. These factors collectively position oil and gas as the fastest-expanding end-use sector, driving substantial growth and creating opportunities for water treatment chemical manufacturers.

Region with largest share:

During the forecast period, the Asia Pacific region is expected to hold the largest market share due to rapid population growth, urban expansion, and industrial development. Nations like China, India, and Japan are experiencing heightened demand for safe municipal and industrial water solutions. Growth is supported by expanding infrastructure, increased awareness of water-related health risks, and stricter environmental standards. Key industries, including power, chemicals, and food processing, rely extensively on chemical-based water treatment methods. Ongoing investments in advanced treatment technologies and rising industrial and municipal water needs make Asia-Pacific the largest regional market, reflecting its pivotal role in the global water treatment and purification chemicals industry.

Region with highest CAGR:

Over the forecast period, the Middle East & Africa region is anticipated to exhibit the highest CAGR, driven by industrial expansion, urban population growth, and severe water scarcity. Key nations, including Saudi Arabia, UAE, and South Africa, are investing in desalination plants, wastewater treatment facilities, and water reuse initiatives. Increasing use of chemicals for purification, scaling control, and corrosion prevention is boosting adoption. Government programs, regulatory enforcement, and infrastructure development in municipal and industrial sectors are further accelerating

demand, making the Middle East & Africa the region with the highest growth rate and a rapidly expanding market for water treatment and purification chemicals.

Key players in the market

Some of the key players in Water Treatment & Purification Chemicals Market include BASF SE, Suez SA, Kemira OYJ, BWA Water Additives, Ecolab Inc., Solenis LLC, SNF Group, Kurita Water Industries Ltd, Evoqua Water Technologies, Dow Chemical Company, Veolia, Solvay, Nouryon, Baker Hughes Company, Arxada, Pure Aqua, Inc., Lonza Group AG and Thermax Limited.

Key Developments:

In October 2025, BASF SE and ANDRITZ Group have signed a license agreement for the use of BASF's proprietary gas treatment technology, OASE® blue, in a carbon capture project planned to be implemented in the city of Aarhus, Denmark. The project aims to capture approximately 435,000 tons of CO₂ annually from the flue gases of a waste-to-energy plant for sequestration; the city of Aarhus has set itself the goal of becoming CO₂-neutral by 2030.

In October 2025, Dow and MEGlobal have finalized an agreement for Dow to supply an additional equivalent to 100 KTA of ethylene from its Gulf Coast operations. The ethylene will serve as a key feedstock for MEGlobal's ethylene glycol (EG) manufacturing facility co-located at Dow's and MEGlobal's Oyster Creek site.

In June 2025, SUEZ wins a new contract in Kochi City (India) to upgrade water production and distribution services. The State Government owned Kerala Water Authority (KWA), responsible for the development and regulation of water supply and wastewater management in the southern Indian state of Kerala, awarded SUEZ the contract for Kochi City water supply system upgrade, operations and maintenance, under its Kerala Urban Water Services Improvement Programme.

Product Types Covered:

Coagulants & Flocculants

Biocides & Disinfectants

Scale Inhibitors & Corrosion Inhibitors

Chelating Agents

pH Adjusters & Stabilizers

Anti-Foaming Agents

Other Product Types

End Users Covered:

Power Generation

Oil & Gas

Mining

Pulp & Paper

Food & Beverage

Chemicals

Other End Users

Regions Covered:

North America

United States

Canada

Mexico

Europe

United Kingdom

Germany

France

Italy

Spain

Netherlands

Belgium

Sweden

Switzerland

Poland

Rest of Europe

Asia Pacific

China

Japan

India

South Korea

Australia

Indonesia

Thailand

Malaysia

Singapore

Vietnam

Rest of Asia Pacific

South America

Brazil

Argentina

Colombia

Chile

Peru

Rest of South America

Rest of the World (RoW)

Middle East

Saudi Arabia

United Arab Emirates

Qatar

Israel

Rest of Middle East

Africa

South Africa

Egypt

Morocco

Rest of Africa

What our report offers:

- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2023, 2024, 2025, 2026, 2027, 2028, 2030, 2032 and 2034
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical

presence, and strategic alliances

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