

## **Hypochlorous Acid Market Report and Forecast 2025-2034**

Market Report | 2025-07-21 | 157 pages | EMR Inc.

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### **Report description:**

The global market for hypochlorous acid reached a value of USD 8.96 Billion in 2024. The global hypochlorous acid market is expected to grow at a CAGR of 3.10% between 2025 and 2034 to reach USD 12.16 Billion by 2034.

#### News and Developments in the Market

In May 2023, Aqualution, a prominent hypochlorous manufacturer based in Scotland, received an award for its revolutionary hypochlorous acid-based gel at Business Insider Made in Scotland awards.

In April 2023, Saltwater Biocides announced the EPA registration of its Hy-GEN brand of hypochlorous acid which is considered a safe, powerful, and environment-friendly disinfectant. The pH of the product is neutral and is capable of fighting bacteria such as Staph and Rhinovirus, with a potential to support the growth of the hypochlorous acid market.

In November 2021, PCT Ltd. confirmed that the company's experiment aimed towards proving HOCl as antimicrobial had been successful. The company also stated its aim to analyse different crystal structures of its product to improve the efficacy and efficiency of the production processes which will bolster the chances of commercialisation of the product in the future.

In October 2021, PCT Ltd. announced the acquisition of an exclusive liquid- and gaseous delivery technology which converts hypochlorous acid into dry crystals, simplifying its shipping and maintenance. This technology was developed by Onza Corporation, and is aimed at reducing shipping costs, as well as bolstering the shelf life of hypochlorous acid.

In September 2021, Room Shield, a company based in Halesfield, announced a collaboration with a manufacturer in North Staffordshire, England, to launch the commercial availability of its hypochlorous-based products.

Growing Applications in Healthcare and Rising Demands for Disinfectants are Key Hypochlorous Acid Market Trends

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Hypochlorous acid is defined as a weak and unstable acid which occurs only in solution form. It is an extremely aggressive and toxic colourless liquid with vinegar-like odour having a boiling point of 19C. Hypochlorous acid is widely used as a bleaching agent, disinfectant, and oxidising agent, among others.

- The escalating applications of hypochlorous acid in the healthcare industry as a crucial ingredient in wound care, open wound healing, eye care, and veterinary care products is driving the hypochlorous acid market growth.
- The growing research and development activities to explore the potential uses of hypochlorous acid for the treatment of chronic diseases such as diabetic foot ulcers are further propelling the market growth.
- The increasing demand for hypochlorous acid for the manufacturing of disinfectants is likely to provide impetus to the market. In addition, the increasing usage of efficient and effective disinfectants across the commercial and residential sector is further bolstering the market growth.
- The ability of hypochlorous acid to fight skin conditions such as acne and pimples is leading to a heightened application of the acid in the personal care industry. Moreover, the increasing sales of high-quality personal care and cosmetics products is accelerating the market growth.

Increasing Hygiene Awareness and Shift Towards Non-Alcoholic Sanitisers are Lucrative Opportunities for the Hypochlorous Acid Market

#### Rising Hygiene Awareness

The rising awareness pertaining to hygiene is anticipated to increase the scope of sales for innovative, premium, and superior hypochlorous-based personal care products.

#### Rising Standards of the Healthcare Sector

The rising standards of the healthcare sector owing to the increasing prevalence of hospital acquired contaminations is harnessing the demand for disinfectants which is in turn fostering the demand for hypochlorous acid.

#### Growing Expansion of the E-commerce Sector

The growing expansion of the e-commerce sector is likely to offer lucrative opportunities to the hypochlorous acid market by accelerating the sales of various downstream products of hypochlorous acid such personal care products, surfactants, and sanitisers, among others.

#### Shift Towards Non-Alcoholic Sanitisers

The transition from alcohol-based sanitisers to non-alcoholic sanitisers is anticipated to propel the demand for hypochlorous acid as it is generally safe and eco-friendly. In addition to this, the anticipated increase in the sale of portable sanitisers owing to the increasing hygienic awareness post-COVID-19 is likely to add to the market growth.

Potential Toxicity of Hypochlorous Acid and Inadequate Infrastructure in Rural Areas Pose Challenges for the Market

#### Lack of Infrastructure in the Rural Areas

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The lack of infrastructure across rural areas is impeding people from using various commercial facilities such as hospitals, hotels, and restrooms, among others.

#### Not Approved for Organic Production

Hypochlorous acid is not approved for organic production and handling which might prove to be a barrier for the hypochlorous acid market penetration in the agricultural sector.

#### Toxic to Humans

Hypochlorous acid is not safe for human consumption and poor handling of the product might lead to chronic diseases. Exposure of the product to infants might lead to death. In this regard, the product might witness slow penetration in the household sector.

#### Hypochlorous Acid Market Segmentation

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

##### Market Breakup by Product Type

- Calcium hypochlorite
- Sodium hypochlorite
- Others

##### Market Breakup by End-User

- Wound Management
- Oil and Gas
- Water Treatment
- Personal Care
- Food and Beverages
- Others

##### Market Breakup by Application

- Disinfecting
- Sanitizing Agent
- Oxidizing Agent
- Others

##### Market Breakup by Region

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

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## Disinfectants Lead the Hypochlorous Acid Market Share by Product Type

Hypochlorous acid is used as an active ingredient in disinfectants due to its ability to break-down cell membranes. In this regard, the increasing application of disinfectants across household and commercial sectors to eliminate illness-causing bacteria, germs, and fungi, is driving the segment's growth. It is a powerful disinfectant which is gaining traction in the healthcare units to bolster the safety of the patients by eradicating viruses.

Moreover, hypochlorous acid-based disinfectants are easy to use, inexpensive, have a stable safety profile, can be applied to large areas quickly and efficiently, and are convenient. Hence, these advantages offered by the product are anticipated to augment the segment's growth in the forecast period. Furthermore, the segment is likely to be aided by the growing research and development activities aimed towards producing skin-safe disinfecting products, which are anticipated to generate a significant demand for the hypochlorous acid market in the forecast period.

## Wound Management End-User Segment Occupies a Substantial Market Share

Hypochlorous acid offers excellent wound healing properties along with powerful anti-microbial and antibiofilm potency. In this regard, this acid is an ideal wound care agent which is widely used in pharmaceutical wound healing products.

The growing research and development activities in the pharmaceutical industry aimed towards bolstering the quality of wound care medicines and ointments are propelling the demand for the hypochlorous acid market. Over the forecast period, the increasing prevalence of infections induced by severe wounds are likely to harness the sales of hypochlorous acid-based medicines and creams.

## North America Holds a Strong Market Presence, while Asia Pacific to Witness Steady Growth

The market in the North America region is being driven by the growing demand for disinfectants across the hospitals in the United States and Canada. In addition, the strong foothold of major manufacturers in the region is leading to progressive product innovations. The increasing disposable income and rapid infrastructure advancements in semi-urban and urban areas of the region is propelling the demand for superior quality cosmetic and pharmaceutical products which is bolstering the hypochlorous acid market. Over the forecast period, the anticipated increase in investments in water treatment projects are likely to generate a significant demand for the product.

The Asia Pacific is likely to witness a steady growth owing to the presence of large population base in emerging economies such as India and China. Meanwhile, the robust growth of the water treatment industry across India, owing to the increasing awareness about river pollution and its impact on the environment is anticipated to accelerate the demand for the product in the region. Rising population levels and degrading air quality in the region are anticipated to increase personal hygiene awareness. This factor is likely to bolster the sales of hypochlorous acid-based personal care products which would accelerate the hypochlorous acid market growth in the forecast period.

## Competitive Landscape

The comprehensive EMR report provides an in-depth assessment of the market based on the Porter's five forces model along with giving a SWOT analysis. The report gives a detailed analysis of the following key players in the global hypochlorous acid market, covering their competitive landscape and latest developments like mergers, acquisitions, investments and expansion plans.

Lenntech B.V.

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Lenntech B.V. was established in 1993 and is a Netherland-based prominent manufacturing and designing company. The company provides sustainable and technologically advanced solutions for water treatment and liquid separation. The innovative designing and engineering solutions offered by the company towards wastewater reuse are the driving force of the company. Lenntech B.V. also collaborates with academic institutions and research centres which enhances cooperation for sustainable water treatment objectives.

#### INOVYN

INOVYN is one of the largest chemical companies in Europe which manufactures a number of chemicals used as raw materials in industrial applications. With a workforce of more than 4,000, INOVYN provides chemicals for various industries all around the world including healthcare, pulp and paper, textiles, and water treatment, among others.

#### Olin Corporation

Olin Corporation is a prominent manufacturing company founded in 1892, based in Texas, United States. The crucial products which come under the manufacturing portfolio of this company include ammunition, chlorine, and sodium hydroxide.

#### AGC Group

AGC Group is a Japanese firm which innovates and manufactures various products including glass, electronics, chemicals, and ceramics, among others. The company also specialises in the development of high-tech automotive products and components.

#### Surpass Chemical Company, Inc

Surpass Chemical Company, Inc is renowned American chemical company which serves various industries including water and wastewater, semiconductor, agriculture, and food and beverage, among others.

#### Occidental Petroleum Corporation

Occidental Petroleum Corporation is a chemical manufacturing company which is involved in the exploration of oil and natural gas. The company produces and markets basic chemicals which are used as raw materials by various end use industries.

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