

# **Global IoT in Chemical Industry Market Size Study, by Technology (Machine Vision, 3D Printing, Digital Twin, Plant Asset Management, Manufacturing Execution System, Distributed Control System, Industrial Robotics, Big Data, Artificial Intelligence, AR and VR, Others), by Application (Petrochemicals and Polymers, Fertilizers and Agrochemicals, Others) and Regional Forecasts 2022-2032**

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## **Abstracts**

Global IoT in Chemical Industry Market is valued at approximately USD 73.54 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 13.19% over the forecast period 2024-2032. IoT technology in the chemical industry encompasses web-connected smart devices equipped with processors, sensors, and communication hardware, enabling the collection, analysis, and processing of data from their surroundings. This technology enhances efficiency in chemical production by connecting sensors and devices to machines for quick and efficient service delivery. The escalating environmental concerns due to chemical emissions, the need to mitigate risks associated with chemical industries, and the increasing emphasis on the circular economy are pivotal factors driving the market's growth. Additionally, the growing adoption of industrial robots further propels the market.

The global IoT market in the chemical industry is experiencing increased demand due to rising adoption of industrial robots. These robots, integrated with IoT technologies, enhance automation, efficiency, and safety across chemical manufacturing processes. As industries prioritize operational excellence and cost-effectiveness, IoT-enabled robots offer real-time monitoring, predictive maintenance, and precise control over

production variables. This trend is particularly pronounced in regions like Asia-Pacific, where industrialization and technological advancements drive significant IoT investment. The synergy between industrial robots and IoT not only improves productivity but also ensures compliance with stringent regulatory standards, thereby fueling further growth in the global IoT market for the chemical industry. However, high initial data privacy concerns and substantial initial investments pose challenges to the market's expansion. Conversely, the surge in chemical production in both developed and developing nations presents lucrative opportunities for the IoT in chemical industry market.

The key region in the Global IoT in Chemical Industry Market includes North America, Europe, Asia Pacific, Latin America, and Middle East & Africa. In 2023, Asia-Pacific dominates the Global IoT in Chemical Industry Market in terms of revenue and projected to witness fastest growth during the forecast period 2024-2032. This region's leadership is driven by rapid industrialization, technological advancements, and increasing adoption of IoT solutions across chemical manufacturing processes. Countries like China, India, and Japan lead the charge, leveraging IoT to enhance operational efficiency, improve supply chain management, and ensure regulatory compliance. The growing emphasis on smart manufacturing and digital transformation in Asia-Pacific further accelerates IoT adoption in the chemical sector. Moreover, supportive government initiatives and investments in IoT infrastructure bolster the region's position at the forefront of shaping the future of IoT applications in the chemical industry worldwide.

Major market players included in this report are:

ABB Ltd

Altizon, Inc.

Atos SE

Cisco Systems, Inc.

Emerson Electric Co

Endress+Hauser AG

Fanuc Corporation

General Electric

Honeywell International Inc.

Microsoft Corporation

Mitsubishi Electric Corporation

Rockwell Automation, Inc.

Schneider Electric SE

Siemens AG

Yokogawa Electric Corporation

The detailed segments and sub-segment of the market are explained below:

By Technology

Machine Vision

3D Printing

Digital Twin

Plant Asset Management

Manufacturing Execution System

Distributed Control System

Industrial Robotics

Big Data

Artificial Intelligence

AR and VR

Others

By Application

Petrochemicals and Polymers

Fertilizers and Agrochemicals

Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

Rest of Europe

Asia Pacific

China

India

Japan

Australia

South Korea

Rest of Asia Pacific

Latin America

Brazil

Mexico

Rest of Latin America

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

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