

Pesticide And Other Agricultural Chemicals Market Outlook 2025-2034: Market Share, and Growth Analysis By Type (Herbicides, Insecticides, Fungicides, Other Pesticide and Other Agricultural Chemicals), By Origin (Synthetic, Bio-Based), By Application

<https://marketpublishers.com/r/P6239E9DB7F3EN.html>

Date: October 2025

Pages: 160

Price: US\$ 3,950.00 (Single User License)

ID: P6239E9DB7F3EN

Abstracts

The Pesticide And Other Agricultural Chemicals Market is valued at USD 113.5 billion in 2025 and is projected to grow at a CAGR of 9.1% to reach USD 248.6 billion by 2034.

Pesticide and Other Agricultural Chemicals Market Overview

The pesticide and other agricultural chemicals market plays a vital role in modern agriculture, contributing significantly to crop protection and enhancing agricultural productivity. Pesticides, herbicides, fungicides, and other chemical products are used to control pests, weeds, and diseases that threaten crop yields. These chemicals have revolutionized farming practices by increasing efficiency, improving food security, and reducing the loss of crops to pests and diseases. The market includes both synthetic chemicals and biopesticides, with an increasing shift toward eco-friendly alternatives to reduce the environmental impact of traditional pesticides. Governments worldwide have recognized the importance of pesticide usage in ensuring sustainable food production, with regulatory frameworks in place to balance their benefits with the risks they pose to human health and the environment. With a growing global population, increasing demand for food, and the pressures of climate change, the pesticide and agricultural chemicals market is expected to grow further, providing essential tools for crop protection. As consumer preferences shift toward organic and sustainably grown produce, the market is also witnessing a rise in demand for low-toxic and

environmentally friendly alternatives, driving innovation in pesticide and agricultural chemical development. The pesticide and agricultural chemicals market has experienced notable developments, especially with the continued push for sustainable and eco-friendly agricultural practices. The demand for biopesticides and integrated pest management (IPM) solutions is increasing, driven by concerns over the environmental and health risks associated with chemical pesticides. Biopesticides, which are derived from natural materials such as animals, plants, and microorganisms, are gaining traction due to their perceived safety and effectiveness. Many countries are implementing stricter regulations on chemical pesticide use, encouraging the development and adoption of safer, more sustainable alternatives. Additionally, advancements in precision agriculture and digital farming technologies are enabling farmers to apply pesticides more efficiently, reducing the need for widespread chemical use. This has led to the development of targeted application systems that deliver pesticides only where necessary, minimizing the environmental impact. The growing consumer demand for organic products, coupled with rising awareness of the dangers of pesticide overuse, is also influencing market dynamics. The agricultural chemicals market is experiencing a shift toward more sustainable and precision-focused solutions, which are expected to continue shaping the industry in the coming years. The pesticide and agricultural chemicals market is expected to continue evolving with further advancements in biotechnology, regulatory changes, and an increasing focus on sustainable farming practices. The market is likely to see a rise in demand for innovative solutions such as CRISPR gene editing, which could offer more precise and effective methods for pest control and disease resistance. As global food demand increases, the need for enhanced crop protection will drive investments in more effective chemical products, including new formulations that reduce toxicity while maintaining or improving efficacy. The adoption of precision agriculture tools and drones is also expected to increase, allowing for more accurate application of pesticides and reducing the environmental footprint. Additionally, the market is likely to witness increased collaboration between agricultural chemical companies, biotech firms, and government bodies to develop integrated pest management systems that combine chemical, biological, and physical control methods. As environmental regulations become more stringent, companies will continue to focus on developing greener, more sustainable agricultural chemicals. Consumer preferences for organic and eco-friendly produce will continue to shape market offerings, creating a demand for innovative, low-impact pesticides and agricultural chemicals.

Key Insights Pesticide And Other Agricultural Chemicals Market

Growth of Biopesticides: There is increasing demand for biopesticides derived

from natural sources, driven by consumer demand for safer, environmentally friendly alternatives to chemical pesticides.

Adoption of Precision Agriculture Technologies: The use of advanced technologies, such as drones and precision application systems, is enabling more targeted and efficient pesticide use, reducing environmental impact.

Integrated Pest Management (IPM) Systems: The shift toward integrated pest management approaches combines chemical, biological, and physical pest control methods to reduce reliance on chemical pesticides.

Regulatory Push for Sustainable Practices: Stricter regulations on pesticide use and a growing emphasis on sustainability are driving the development of eco-friendly agricultural chemicals and safer pesticide alternatives.

Consumer Demand for Organic Produce: The rising preference for organic products is fueling the growth of pesticide-free farming, leading to an increased demand for non-toxic, natural pest control solutions.

Rising Global Food Demand: The increasing global population and the need for higher agricultural output drive the demand for effective crop protection solutions to ensure food security.

Advancements in Biotechnology and Chemical Solutions: Continued innovation in biotechnology is enabling the development of more effective, targeted, and sustainable pest control solutions that reduce environmental impact.

Consumer Awareness of Health and Sustainability: Growing concerns about pesticide residues in food are driving demand for organic farming and eco-friendly agricultural chemicals, which provide safer alternatives.

Regulatory Support for Sustainable Practices: Governments and regulatory bodies are enacting policies that promote the development and adoption of sustainable pest control methods, encouraging innovation in the sector.

Regulatory and Environmental Concerns: Stricter regulations on pesticide use, coupled with increasing public scrutiny regarding their environmental and health impact, present challenges for the industry to innovate while maintaining safety and efficacy standards.

Pesticide And Other Agricultural Chemicals Market Segmentation

By Type

Herbicides

Insecticides

Fungicides

Other Pesticide and Other Agricultural Chemicals

By Origin

Synthetic

Bio-Based

By Application

Grains and Cereals

Pulses and Oilseeds

Commercial Crops

Fruits and Vegetables

Other Applications

Key Companies Analysed

Mitsui Chemicals Inc.

BASF SE

Marubeni Corporation

Bayer AG

Nutrien Ltd.

Syngenta AG

Sumitomo Chemical Co. Ltd.

Reckitt Benckiser Group plc

Corteva Inc.

China National Chemical Corporation

DuPont de Nemours Inc.

Nippon Soda Co. Ltd.

Bharat Rasayan Limited

Sinochem International Corporation

Chemours Inc.

FMC Corporation

Adama Agricultural Solutions

Nufarm Limited

Nissan Chemical Corporation

Arysta Lifescience Corporation

PI Industries Ltd.

Meghmani Organics Limited

Crystal Crop Protection Pvt. Ltd.

Gowan Co. LLC

Isagro S.p.A.

Rallis India Limited

Albaugh LLC

UPL Limited

Rotam Agrochemical Company Ltd.

Wynca Group

Insecticides India Limited

Drexel Chemical Co. Inc.

Willowood Limited

Pesticide And Other Agricultural Chemicals Market Analytics

The report employs rigorous tools, including Porter's Five Forces, value chain mapping, and scenario-based modeling, to assess supply–demand dynamics. Cross-sector influences from parent, derived, and substitute markets are evaluated to identify risks and opportunities. Trade and pricing analytics provide an up-to-date view of international flows, including leading exporters, importers, and regional price trends.

Macroeconomic indicators, policy frameworks such as carbon pricing and energy security strategies, and evolving consumer behavior are considered in forecasting scenarios. Recent deal flows, partnerships, and technology innovations are incorporated to assess their impact on future market performance.

Pesticide And Other Agricultural Chemicals Market Competitive Intelligence

The competitive landscape is mapped through OG Analysis' proprietary frameworks, profiling leading companies with details on business models, product portfolios, financial performance, and strategic initiatives. Key developments such as mergers & acquisitions, technology collaborations, investment inflows, and regional expansions are analyzed for their competitive impact. The report also identifies emerging players and innovative startups contributing to market disruption.

Regional insights highlight the most promising investment destinations, regulatory landscapes, and evolving partnerships across energy and industrial corridors.

Countries Covered

North America — Pesticide And Other Agricultural Chemicals market data and outlook to 2034

United States

Canada

Mexico

Europe — Pesticide And Other Agricultural Chemicals market data and outlook to 2034

Germany

United Kingdom

France

Italy

Spain

BeNeLux

Russia

Sweden

Asia-Pacific — Pesticide And Other Agricultural Chemicals market data and outlook to 2034

China

Japan

India

South Korea

Australia

Indonesia

Malaysia

Vietnam

Middle East and Africa — Pesticide And Other Agricultural Chemicals market data and outlook to 2034

Saudi Arabia

South Africa

Iran

UAE

Egypt

South and Central America — Pesticide And Other Agricultural Chemicals market data and outlook to 2034

Brazil

Argentina

Chile

Peru

** We can include data and analysis of additional countries on demand.*

Research Methodology

This study combines primary inputs from industry experts across the Pesticide And Other Agricultural Chemicals value chain with secondary data from associations, government publications, trade databases, and company disclosures. Proprietary modeling techniques, including data triangulation, statistical correlation, and scenario planning, are applied to deliver reliable market sizing and forecasting.

Key Questions Addressed

What is the current and forecast market size of the Pesticide And Other Agricultural Chemicals industry at global, regional, and country levels?

Which types, applications, and technologies present the highest growth potential?

How are supply chains adapting to geopolitical and economic shocks?

What role do policy frameworks, trade flows, and sustainability targets play in shaping demand?

Who are the leading players, and how are their strategies evolving in the face of global uncertainty?

Which regional “hotspots” and customer segments will outpace the market, and what go-to-market and partnership models best support entry and expansion?

Where are the most investable opportunities—across technology roadmaps, sustainability-linked innovation, and M&A—and what is the best segment to

invest over the next 3–5 years?

Your Key Takeaways from the Pesticide And Other Agricultural Chemicals Market Report

Global Pesticide And Other Agricultural Chemicals market size and growth projections (CAGR), 2024-2034

Impact of Russia-Ukraine, Israel-Palestine, and Hamas conflicts on Pesticide And Other Agricultural Chemicals trade, costs, and supply chains

Pesticide And Other Agricultural Chemicals market size, share, and outlook across 5 regions and 27 countries, 2023-2034

Pesticide And Other Agricultural Chemicals market size, CAGR, and market share of key products, applications, and end-user verticals, 2023-2034

Short- and long-term Pesticide And Other Agricultural Chemicals market trends, drivers, restraints, and opportunities

Porter's Five Forces analysis, technological developments, and Pesticide And Other Agricultural Chemicals supply chain analysis

Pesticide And Other Agricultural Chemicals trade analysis, Pesticide And Other Agricultural Chemicals market price analysis, and Pesticide And Other Agricultural Chemicals supply/demand dynamics

Profiles of 5 leading companies—overview, key strategies, financials, and products

Latest Pesticide And Other Agricultural Chemicals market news and developments

Additional Support

With the purchase of this report, you will receive

An updated PDF report and an MS Excel data workbook containing all market tables and figures for easy analysis.

7-day post-sale analyst support for clarifications and in-scope supplementary data, ensuring the deliverable aligns precisely with your requirements.

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Contents

1. TABLE OF CONTENTS

- 1.1 List of Tables
- 1.2 List of Figures

2. GLOBAL PESTICIDE AND OTHER AGRICULTURAL CHEMICALS MARKET SUMMARY, 2025

- 2.1 Pesticide And Other Agricultural Chemicals Industry Overview
 - 2.1.1 Global Pesticide And Other Agricultural Chemicals Market Revenues (In US\$ billion)
- 2.2 Pesticide And Other Agricultural Chemicals Market Scope
- 2.3 Research Methodology

3. PESTICIDE AND OTHER AGRICULTURAL CHEMICALS MARKET INSIGHTS, 2024-2034

- 3.1 Pesticide And Other Agricultural Chemicals Market Drivers
- 3.2 Pesticide And Other Agricultural Chemicals Market Restraints
- 3.3 Pesticide And Other Agricultural Chemicals Market Opportunities
- 3.4 Pesticide And Other Agricultural Chemicals Market Challenges
- 3.5 Tariff Impact on Global Pesticide And Other Agricultural Chemicals Supply Chain Patterns

4. PESTICIDE AND OTHER AGRICULTURAL CHEMICALS MARKET ANALYTICS

- 4.1 Pesticide And Other Agricultural Chemicals Market Size and Share, Key Products, 2025 Vs 2034
- 4.2 Pesticide And Other Agricultural Chemicals Market Size and Share, Dominant Applications, 2025 Vs 2034
- 4.3 Pesticide And Other Agricultural Chemicals Market Size and Share, Leading End Uses, 2025 Vs 2034
- 4.4 Pesticide And Other Agricultural Chemicals Market Size and Share, High Growth Countries, 2025 Vs 2034
- 4.5 Five Forces Analysis for Global Pesticide And Other Agricultural Chemicals Market
 - 4.5.1 Pesticide And Other Agricultural Chemicals Industry Attractiveness Index, 2025
 - 4.5.2 Pesticide And Other Agricultural Chemicals Supplier Intelligence

- 4.5.3 Pesticide And Other Agricultural Chemicals Buyer Intelligence
- 4.5.4 Pesticide And Other Agricultural Chemicals Competition Intelligence
- 4.5.5 Pesticide And Other Agricultural Chemicals Product Alternatives and Substitutes Intelligence
- 4.5.6 Pesticide And Other Agricultural Chemicals Market Entry Intelligence

5. GLOBAL PESTICIDE AND OTHER AGRICULTURAL CHEMICALS MARKET STATISTICS – INDUSTRY REVENUE, MARKET SHARE, GROWTH TRENDS AND FORECAST BY SEGMENTS, TO 2034

- 5.1 World Pesticide And Other Agricultural Chemicals Market Size, Potential and Growth Outlook, 2024- 2034 (\$ billion)
- 5.1 Global Pesticide And Other Agricultural Chemicals Sales Outlook and CAGR Growth By Type, 2024- 2034 (\$ billion)
- 5.2 Global Pesticide And Other Agricultural Chemicals Sales Outlook and CAGR Growth By Origin, 2024- 2034 (\$ billion)
- 5.3 Global Pesticide And Other Agricultural Chemicals Sales Outlook and CAGR Growth By Application, 2024- 2034 (\$ billion)
- 5.4 Global Pesticide And Other Agricultural Chemicals Market Sales Outlook and Growth by Region, 2024- 2034 (\$ billion)

6. ASIA PACIFIC PESTICIDE AND OTHER AGRICULTURAL CHEMICALS INDUSTRY STATISTICS – MARKET SIZE, SHARE, COMPETITION AND OUTLOOK

- 6.1 Asia Pacific Pesticide And Other Agricultural Chemicals Market Insights, 2025
- 6.2 Asia Pacific Pesticide And Other Agricultural Chemicals Market Revenue Forecast By Type, 2024- 2034 (USD billion)
- 6.3 Asia Pacific Pesticide And Other Agricultural Chemicals Market Revenue Forecast By Origin, 2024- 2034 (USD billion)
- 6.4 Asia Pacific Pesticide And Other Agricultural Chemicals Market Revenue Forecast By Application, 2024- 2034 (USD billion)
- 6.5 Asia Pacific Pesticide And Other Agricultural Chemicals Market Revenue Forecast by Country, 2024- 2034 (USD billion)
 - 6.5.1 China Pesticide And Other Agricultural Chemicals Market Size, Opportunities, Growth 2024- 2034
 - 6.5.2 India Pesticide And Other Agricultural Chemicals Market Size, Opportunities, Growth 2024- 2034
 - 6.5.3 Japan Pesticide And Other Agricultural Chemicals Market Size, Opportunities, Growth 2024- 2034

6.5.4 Australia Pesticide And Other Agricultural Chemicals Market Size, Opportunities, Growth 2024- 2034

7. EUROPE PESTICIDE AND OTHER AGRICULTURAL CHEMICALS MARKET DATA, PENETRATION, AND BUSINESS PROSPECTS TO 2034

7.1 Europe Pesticide And Other Agricultural Chemicals Market Key Findings, 2025

7.2 Europe Pesticide And Other Agricultural Chemicals Market Size and Percentage Breakdown By Type, 2024- 2034 (USD billion)

7.3 Europe Pesticide And Other Agricultural Chemicals Market Size and Percentage Breakdown By Origin, 2024- 2034 (USD billion)

7.4 Europe Pesticide And Other Agricultural Chemicals Market Size and Percentage Breakdown By Application, 2024- 2034 (USD billion)

7.5 Europe Pesticide And Other Agricultural Chemicals Market Size and Percentage Breakdown by Country, 2024- 2034 (USD billion)

7.5.1 Germany Pesticide And Other Agricultural Chemicals Market Size, Trends, Growth Outlook to 2034

7.5.2 United Kingdom Pesticide And Other Agricultural Chemicals Market Size, Trends, Growth Outlook to 2034

7.5.2 France Pesticide And Other Agricultural Chemicals Market Size, Trends, Growth Outlook to 2034

7.5.2 Italy Pesticide And Other Agricultural Chemicals Market Size, Trends, Growth Outlook to 2034

7.5.2 Spain Pesticide And Other Agricultural Chemicals Market Size, Trends, Growth Outlook to 2034

8. NORTH AMERICA PESTICIDE AND OTHER AGRICULTURAL CHEMICALS MARKET SIZE, GROWTH TRENDS, AND FUTURE PROSPECTS TO 2034

8.1 North America Snapshot, 2025

8.2 North America Pesticide And Other Agricultural Chemicals Market Analysis and Outlook By Type, 2024- 2034 (\$ billion)

8.3 North America Pesticide And Other Agricultural Chemicals Market Analysis and Outlook By Origin, 2024- 2034 (\$ billion)

8.4 North America Pesticide And Other Agricultural Chemicals Market Analysis and Outlook By Application, 2024- 2034 (\$ billion)

8.5 North America Pesticide And Other Agricultural Chemicals Market Analysis and Outlook by Country, 2024- 2034 (\$ billion)

8.5.1 United States Pesticide And Other Agricultural Chemicals Market Size, Share,

Growth Trends and Forecast, 2024- 2034

8.5.1 Canada Pesticide And Other Agricultural Chemicals Market Size, Share, Growth Trends and Forecast, 2024- 2034

8.5.1 Mexico Pesticide And Other Agricultural Chemicals Market Size, Share, Growth Trends and Forecast, 2024- 2034

9. SOUTH AND CENTRAL AMERICA PESTICIDE AND OTHER AGRICULTURAL CHEMICALS MARKET DRIVERS, CHALLENGES, AND FUTURE PROSPECTS

9.1 Latin America Pesticide And Other Agricultural Chemicals Market Data, 2025

9.2 Latin America Pesticide And Other Agricultural Chemicals Market Future By Type, 2024- 2034 (\$ billion)

9.3 Latin America Pesticide And Other Agricultural Chemicals Market Future By Origin, 2024- 2034 (\$ billion)

9.4 Latin America Pesticide And Other Agricultural Chemicals Market Future By Application, 2024- 2034 (\$ billion)

9.5 Latin America Pesticide And Other Agricultural Chemicals Market Future by Country, 2024- 2034 (\$ billion)

9.5.1 Brazil Pesticide And Other Agricultural Chemicals Market Size, Share and Opportunities to 2034

9.5.2 Argentina Pesticide And Other Agricultural Chemicals Market Size, Share and Opportunities to 2034

10. MIDDLE EAST AFRICA PESTICIDE AND OTHER AGRICULTURAL CHEMICALS MARKET OUTLOOK AND GROWTH PROSPECTS

10.1 Middle East Africa Overview, 2025

10.2 Middle East Africa Pesticide And Other Agricultural Chemicals Market Statistics By Type, 2024- 2034 (USD billion)

10.3 Middle East Africa Pesticide And Other Agricultural Chemicals Market Statistics By Origin, 2024- 2034 (USD billion)

10.4 Middle East Africa Pesticide And Other Agricultural Chemicals Market Statistics By Application, 2024- 2034 (USD billion)

10.5 Middle East Africa Pesticide And Other Agricultural Chemicals Market Statistics by Country, 2024- 2034 (USD billion)

10.5.1 Middle East Pesticide And Other Agricultural Chemicals Market Value, Trends, Growth Forecasts to 2034

10.5.2 Africa Pesticide And Other Agricultural Chemicals Market Value, Trends, Growth Forecasts to 2034

11. PESTICIDE AND OTHER AGRICULTURAL CHEMICALS MARKET STRUCTURE AND COMPETITIVE LANDSCAPE

- 11.1 Key Companies in Pesticide And Other Agricultural Chemicals Industry
- 11.2 Pesticide And Other Agricultural Chemicals Business Overview
- 11.3 Pesticide And Other Agricultural Chemicals Product Portfolio Analysis
- 11.4 Financial Analysis
- 11.5 SWOT Analysis

12 APPENDIX

- 12.1 Global Pesticide And Other Agricultural Chemicals Market Volume (Tons)
- 12.1 Global Pesticide And Other Agricultural Chemicals Trade and Price Analysis
- 12.2 Pesticide And Other Agricultural Chemicals Parent Market and Other Relevant Analysis
- 12.3 Publisher Expertise
- 12.2 Pesticide And Other Agricultural Chemicals Industry Report Sources and Methodology

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