

Global Plant Pesticide Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Plant Pesticide market size is expected to reach \$ 2637 million by 2032, rising at a market growth of 6.6% CAGR during the forecast period (2026-2032).

Global sales of plant pesticides reached 160,000 tons in 2025, with an average price of US\$10,236 per ton.

Plant Pesticide is naturally occurring chemicals (insect toxins) extracted or derived from plants or minerals. They are also called natural insecticides. Organic gardeners will choose these insecticides, in some cases, over synthetic organic materials.

The supply of raw materials for plant pesticides exhibits significant regional dependence and seasonality, resulting in a highly variable cost structure depending on the variety. For tropical varieties such as azadirachtin, raw material costs account for 50-60% of the total cost. India has 25 million azadirachtin trees, providing a relatively stable supply of raw materials, but the extraction rate is extremely low (0.3%-0.5%), requiring approximately 200-300 kg of seeds to extract 1 kg of azadirachtin, and necessitating complex solvent extraction and purification processes. For pyrethrum, raw material costs account for as much as 60-70%, with a global annual production of only 8,000 tons and demand exceeding 21,000 tons, resulting in a severe supply-demand gap. Kenya is the main production area, with dried flower purchase prices around 13,000 yuan/ton, and manual harvesting during peak bloom is required, accounting for 25-30% of labor costs. For rotenone, the raw material comes from rotenone roots in Southeast Asia, accounting for 45-55% of costs, with a relatively high extraction rate of 2%-5%, but the raw material requires a 2-3 year growth period, resulting in a long resource cycle. In terms of processing costs, steam distillation (pyrethrum) accounts for 20-25% of energy consumption, solvent extraction (azapine) solvent recovery costs account for 15-20%,

and supercritical CO₂ extraction equipment requires large investments but yields high product purity. Quality control and testing costs account for 10-15%, requiring HPLC and GC-MS to ensure the content of active ingredients (e.g., azapine ? 0.3%, matrine ? 0.5%) and to detect solvent residues. Overall, plant-based pesticides belong to a category characterized by mid-to-high prices, strong raw material constraints, and low extraction rates. Their cost structure is influenced by multiple factors, including the sustainability of wild resources, planting cycles, extraction process efficiency, and global supply and demand. Scarce varieties such as pyrethroids can be several to tens of times more expensive than chemical pesticides.

This report studies the global Plant Pesticide production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Plant Pesticide and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Plant Pesticide that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Plant Pesticide total production and demand, 2021-2032, (Kilotons)

Global Plant Pesticide total production value, 2021-2032, (USD Million)

Global Plant Pesticide production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global Plant Pesticide consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: Plant Pesticide domestic production, consumption, key domestic manufacturers and share

Global Plant Pesticide production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global Plant Pesticide production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Plant Pesticide production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Plant Pesticide market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Bayer, Sinochem, BASF, Corteva Agriscience, FMC, Nufarm, UPL, Mitsui Chemicals, Sumitomo Chemical, Valent BioSciences, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Plant Pesticide market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) and average price (US\$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Plant Pesticide Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Plant Pesticide Market, Segmentation by Type:

Alkaloids

Terpenes

Ketones

Esters

Global Plant Pesticide Market, Segmentation by Method of Action:

Stomach Poison

Contact Agents

Antifeedant

Fumigant

Other

Global Plant Pesticide Market, Segmentation by Product Forms:

Emulsifiable Concentrates

Wettable Powders

Suspension Concentrates

Microemulsions

Water Dispersible Granules

Global Plant Pesticide Market, Segmentation by Application:

Agriculture

Forestry

Others

Companies Profiled:

Bayer

Sinochem

BASF

Corteva Agriscience

FMC

Nufarm

UPL

Mitsui Chemicals

Sumitomo Chemical

Valent BioSciences

Certis USA

Syngenta

Koppert

Chengdu Newsun Crop Science

Jiangsu Luye Agrochemical

Zhejiang Qianjiang Biochemical

Jiangsu Yangnong Chemical

Zhejiang Xinan Chemical

Jiangsu Lanfeng Bio-chemical

Key Questions Answered:

1. How big is the global Plant Pesticide market?
2. What is the demand of the global Plant Pesticide market?
3. What is the year over year growth of the global Plant Pesticide market?
4. What is the production and production value of the global Plant Pesticide market?
5. Who are the key producers in the global Plant Pesticide market?
6. What are the growth factors driving the market demand?

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