

Global Plant-derived Alkaloid Insecticides Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Plant-derived Alkaloid Insecticides market size is expected to reach \$ 196 million by 2032, rising at a market growth of 6.7% CAGR during the forecast period (2026-2032).

Plant-derived Alkaloid Insecticide Formulations are finished botanical pesticide products containing natural alkaloids or total alkaloid fractions extracted from Sophora plants, Veratrum rhizomes, tobacco, Macleaya plants, and other botanical materials. Major products include matrine aqueous solutions and soluble concentrates, Veratrum rhizome extract soluble concentrates, natural nicotine combination formulations, and a limited number of Macleaya alkaloid formulations. They are mainly used to control aphids, whiteflies, thrips, leafhoppers, mites, and lepidopteran pests in vegetables, fruits, tea, medicinal herbs, field crops, and ornamental plants. Upstream inputs mainly include Sophora plants, Veratrum rhizomes, tobacco leaves, Macleaya plants, standardized botanical alkaloid extracts, solvents, surfactants, stabilizers, synergists, preservatives, and packaging materials. Downstream customers mainly include agricultural-input distributors, agricultural cooperatives, large-scale growers, crop-protection service providers, organic farming companies, landscaping organizations, and government green pest-management programs. On a pesticide formulation manufacturer ex-works basis, global effective capacity was estimated at approximately 34,600 metric tons in 2025, with sales volume of about 25,140 metric tons, an average ex-works price of around USD 4,810 per metric ton, and gross margin of approximately 25%-40%.

From the current market perspective, plant-derived alkaloid insecticide formulations remain a specialized segment of the biopesticide industry. Commercial demand is concentrated mainly in matrine and total Sophora alkaloid formulations, while Veratrum

rhizome extracts, natural nicotine, and other plant-derived alkaloid formulations account for smaller shares. These products are primarily used to control aphids, whiteflies, thrips, leafhoppers, mites, and selected lepidopteran pests in vegetables, fruit trees, tea, medicinal herbs, and ornamental plants. The supplier base is dominated by Chinese manufacturers, and market concentration remains relatively limited, with notable differences in botanical raw material control, active-ingredient standardization, formulation stability, field efficacy, and distribution coverage.

Looking ahead, plant-derived alkaloid insecticide formulations will gradually move from basic low-concentration aqueous products toward more stable soluble concentrates, microemulsions, controlled-release formulations, and synergistic combination products. Manufacturers will place greater emphasis on total alkaloid composition, impurity levels, batch consistency, storage stability, photostability, and rainfastness in order to address the rapid degradation and relatively short field persistence of natural active compounds. As pesticide registration and quality supervision become more standardized, product names, active-ingredient sources, and concentration declarations will become more accurate. Contracted cultivation, standardized extraction, and digital quality control will also become important areas of industry upgrading.

The main market drivers include chemical pesticide reduction, wider adoption of green pest-management programs, growth in organic farming, stricter residue management, and increasing pest resistance. These formulations can serve as important components of integrated pest-management systems and can be used together with microbial pesticides, beneficial insects, and selective chemical insecticides to reduce reliance on products with a single mode of action. Demand for low-residue crop-protection programs in vegetables, tea, fruits, medicinal herbs, and export-oriented agricultural products will continue to support the use of matrine and Veratrum rhizome extract formulations, while encouraging suppliers to expand from individual product sales into crop solutions and technical crop-protection services.

The main constraints include variability in alkaloid content caused by differences in plant varieties, production regions, harvest periods, and storage conditions, which increases the difficulty of standardizing extracts and finished formulations. Some products also have relatively short field persistence, greater sensitivity to sunlight, rainfall, and temperature, and higher treatment costs than certain conventional chemical pesticides. Natural origin does not necessarily imply low risk, as natural nicotine and some Veratrum alkaloids may still present acute toxicity and non-target organism risks. In addition, inaccurate active-ingredient declarations, undeclared synthetic pesticide additives, and insufficient application guidance may continue to affect industry credibility.

and market standardization.

This report studies the global Plant-derived Alkaloid Insecticides production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Plant-derived Alkaloid Insecticides 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-derived Alkaloid Insecticides that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Plant-derived Alkaloid Insecticides total production and demand, 2021-2032, (Tons)

Global Plant-derived Alkaloid Insecticides total production value, 2021-2032, (USD Million)

Global Plant-derived Alkaloid Insecticides production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Plant-derived Alkaloid Insecticides consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Plant-derived Alkaloid Insecticides domestic production, consumption, key domestic manufacturers and share

Global Plant-derived Alkaloid Insecticides production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Plant-derived Alkaloid Insecticides production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Plant-derived Alkaloid Insecticides production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Plant-derived Alkaloid Insecticides 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 Chengdu New Sun Crop Science, Yangling Fuji Biotechnology, Inner Mongolia Shuaiqi Biotechnology, Beijing Multigrass Formulation, Cangzhou Zhengxing Biopesticide, Shaanxi Kanghe Lifeng Biotechnology Pharmaceutical, Shanxi Dewei Bencao Biotechnology, Chongqing Julixin Bioengineering, MGK, Ennore India Chemicals, 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-derived Alkaloid Insecticides market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) 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-derived Alkaloid Insecticides Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Plant-derived Alkaloid Insecticides Market, Segmentation by Type:

Matrine and Total Sophora Alkaloids

Veratrum Rhizome Extracts

Natural Nicotine

Other

Global Plant-derived Alkaloid Insecticides Market, Segmentation by Formulation Type:

Aqueous Solutions

Soluble Concentrates

Emulsifiable Concentrates

Other

Global Plant-derived Alkaloid Insecticides Market, Segmentation by Ingredient Structure:

Single-active Formulations

Combination Formulations

Global Plant-derived Alkaloid Insecticides Market, Segmentation by Application:

Vegetables

Fruits

Tea and Medicinal Herbs

Field Crops

Other

Companies Profiled:

Chengdu New Sun Crop Science

Yangling Fuji Biotechnology

Inner Mongolia Shuaiqi Biotechnology

Beijing Multigrass Formulation

Cangzhou Zhengxing Biopesticide

Shaanxi Kanghe Lifeng Biotechnology Pharmaceutical

Shanxi Dewei Bencao Biotechnology

Chongqing Julixin Bioengineering

MGK

Ennore India Chemicals

Marine Chemicals

Key Questions Answered:

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

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