

Global Bio-Rational Pesticides Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Bio-Rational Pesticides market size was valued at US\$ 228 million in 2024 and is forecast to a readjusted size of USD 286 million by 2031 with a CAGR of 3.3% during review period.

Bio-rational pesticides, also known as biopesticides, are a class of pest control products derived from natural sources or designed to mimic naturally occurring compounds. Unlike traditional chemical pesticides, which often involve synthetic chemicals that may have broader environmental impacts, bio-rational pesticides are designed to target specific pests with minimal harm to non-target organisms and the environment.

The increasing emphasis on sustainable and environmentally friendly agricultural practices has led to a rising demand for bio-rational pesticides. These products align with the goals of reducing chemical use, minimizing environmental impact, and ensuring long-term soil and ecosystem health.

This report is a detailed and comprehensive analysis for global Bio-Rational Pesticides market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Bio-Rational Pesticides market size and forecasts, in consumption value (\$ Million), sales quantity (K Tons), and average selling prices (US\$/Ton), 2020-2031

Global Bio-Rational Pesticides market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Tons), and average selling prices (US\$/Ton), 2020-2031

Global Bio-Rational Pesticides market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Tons), and average selling prices (US\$/Ton), 2020-2031

Global Bio-Rational Pesticides market shares of main players, shipments in revenue (\$ Million), sales quantity (K Tons), and ASP (US\$/Ton), 2020-2025

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Bio-Rational Pesticides

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Bio-Rational Pesticides market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Syngenta, BASF, Koppert Biological Systems, Pro Farm Group, BioWorks Inc., Valent BioSciences, Corteva Agriscience, Isagro SpA, UPL Limited, FMC Corporation, etc.

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

Market Segmentation

Bio-Rational Pesticides market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This

analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Botanical

Microbial

Minerals

Synthetic Materials

Market segment by Application

Indoor Crops

Outdoor Crops

Major players covered

Syngenta

BASF

Koppert Biological Systems

Pro Farm Group

BioWorks Inc.

Valent BioSciences

Corteva Agriscience

Isagro SpA

UPL Limited

FMC Corporation

Mitsui

Bayer Crop Science

ADAMA

Rainbow Chemicals

Sumitomo Chemical

Nufarm

Kumiai Chemical Industry

Nissan Chemical

Nihon Nohyaku

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Bio-Rational Pesticides product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Bio-Rational Pesticides, with price, sales quantity, revenue, and global market share of Bio-Rational Pesticides from 2020 to 2025.

Chapter 3, the Bio-Rational Pesticides competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Bio-Rational Pesticides breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Bio-Rational Pesticides market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Bio-Rational Pesticides.

Chapter 14 and 15, to describe Bio-Rational Pesticides sales channel, distributors, customers, research findings and conclusion.

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