

# **Kairomones Market Forecasts to 2034 – Global Analysis By Type (Host Kairomones, Predator Kairomones, Defense Kairomones, Alarm Kairomones and Social Signaling Kairomones), Crop Type, Function and By Geography**

<https://marketpublishers.com/r/K1CC270A79B6EN.html>

Date: May 2026

Pages: 200

Price: US\$ 4,150.00 (Single User License)

ID: K1CC270A79B6EN

## **Abstracts**

According to Statistics MRC, the Global Kairomones Market is accounted for \$1,143.0 million in 2026 and is expected to reach \$3,708.0 million by 2034 growing at a CAGR of 15.9% during the forecast period. Kairomones are chemical substances emitted by an organism that convey information to another organism, typically of a different species, providing a benefit to the receiver. Unlike pheromones, which are involved in communication within the same species, kairomones benefit the receiving species at the expense of the emitting species. For example, prey species might release kairomones that attract predators, serving as an indirect defense mechanism. This form of chemical communication is essential in shaping ecological interactions and maintaining the balance of ecosystems

According to the American Chemistry Council, an industry trade association for American chemical companies, the production of global agricultural chemicals decreased by approximately 1.3% between January 2020 and February 2020.

### **Market Dynamics:**

#### **Driver:**

Growing interest in sustainable and eco-friendly pest control methods

As consumers and industries seek alternatives to conventional pesticides, the demand

for kairomones, which offer environmentally friendly pest management, surges. This trend propels research and development, market growth, and integration into holistic pest control strategies. With an emphasis on reducing ecological impact, the market benefits from its alignment with sustainable agricultural practices, paving the way for broader acceptance and adoption in the quest for greener and more effective pest management solutions.

**Restraint:**

Complexity of pest ecosystems and the variability in pest behavior

The diverse and intricate nature of pest interactions requires a nuanced understanding for effective kairomone-based solutions. Developing universally applicable products becomes challenging, potentially limiting the market's ability to provide one-size-fits-all solutions. Pest behavior variability may necessitate constant adaptation, research, and innovation to address evolving pest populations. As a result, the complexity of pest ecosystems acts as a constraint, requiring ongoing efforts to tailor kairomone applications to specific pest species and environments for optimal effectiveness.

**Opportunity:**

Increased awareness among consumers

Increased awareness among consumers regarding environmental sustainability and the drawbacks of conventional pest control methods has a profound impact on the market. As consumers prioritize eco-friendly alternatives, the demand for kairomones rises. This heightened awareness stimulates market growth, encouraging research and development in the field. Companies involved in producing and applying kairomones witness increased demand for their products which are driving the growth of the market.

**Threat:**

Insufficient funding for research and development

Limited financial resources hinder the exploration of new kairomones, their applications, and the development of innovative pest control solutions. This shortage stifles scientific advancements and inhibits the market's ability to offer novel and effective products. The lack of funding not only impedes the discovery of potential solutions but also restricts the industry's capacity to address emerging issues, limiting the overall growth and

competitiveness of the market in the realm of sustainable and eco-friendly pest control methods.

### Covid-19 Impact

The Covid-19 pandemic has had varying effects on the market. Disruptions in supply chains, logistical challenges, and economic uncertainties have impacted research and development initiatives. Restricted field studies and laboratory work may slow the pace of innovation. However, increased awareness of sustainable practices and the demand for eco-friendly solutions post-pandemic could stimulate interest in kairomones. The extent of the impact largely depends on the adaptability of the industry and the prioritization of sustainable practices in a post-covid global landscape.

The host kairomones segment is expected to be the largest during the forecast period

The host kairomones segment is estimated to have a lucrative growth, as these chemical cues emitted by potential prey or hosts influence the behavior of predators or parasitoids, aiding in pest management strategies. By leveraging host kairomones, the market can develop targeted and effective solutions for biological pest control. Moreover the utilization of host kairomones reinforces the market's potential to offer tailored solutions that address pest-related challenges with greater efficiency and environmental sensitivity.

The detection & monitoring segment is expected to have the highest CAGR during the forecast period

The detection & monitoring segment is anticipated to witness the highest CAGR growth during the forecast period, because enhanced technologies for identifying and quantifying kairomones in the environment allow for more accurate pest tracking. The use of sophisticated monitoring tools improves the precision and efficacy of kairomone-based solutions, contributing to sustainable pest management practices. As a result, the market benefits from increased reliability, efficiency, and the ability to offer targeted solutions, reinforcing its position as an integral component of modern and environmentally conscious pest control strategies.

### **Region with largest share:**

Asia Pacific is projected to hold the largest market share during the forecast period due to increased awareness of sustainable pest control methods in agriculture. The region's

expanding population and rising demand for food prompt a shift toward eco-friendly solutions. Further the market's trajectory is influenced by a dynamic blend of environmental consciousness, agricultural practices, and the quest for innovative, efficient pest control strategies.

### **Region with highest CAGR:**

North America is projected to have the highest CAGR over the forecast period, as farmers are increasingly turning to sustainable agricultural practices, creating a favourable environment for the use of kairomones. Additionally, consulting with market research firms or industry experts who specialize in agrochemicals and pest control can provide valuable insights into the current state of the market.

### **Key players in the market**

Some of the key players profiled in the Kairomones Market include International Pheromone Systems, Novagrica Hellas S.A., Russell IPM, Koppert Biological Systems, Suterra LLC, Synergy Semiochemicals Corporation, Tr?c? Inc., Harmony Ecotech Pvt. Ltd. , SEDQ Healthy Crops , Sanidad Agricola Econex, LTD., Bedoukian Research, Corteva Agriscience, Pacific Biocontrol Corp, Certis and Isagro Group

### **Key Developments:**

In November 2023, IPS strengthens Pest Research Hub team with international talent. The core value of the company is to promote and support Integrated Pest Management programs which offer ecological and environmentally sustainable solutions to pest management.

In October 2023, SMART Cymru supports Russell IPM Ltd to develop a SMART mobile phone application for monitoring important insect pests. The accurate monitoring of pests is vital to profitable crop and livestock production and to human health and optimises pest management through improved interventions.

### **Types Covered:**

Host Kairomones

Predator Kairomones

Defense Kairomones

Alarm Kairomones

Social Signaling Kairomones

#### Crop Types Covered:

Horticulture Crops

Field Crops

Floriculture

Plantation Crops

Other Crop Types

#### Functions Covered:

Detection & Monitoring

Mass Trapping

Mating Disruption

Other Functions

#### Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

Rest of Europe

Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

**What our report offers:**

- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2023, 2024, 2025, 2026, 2027, 2028, 2030, 2032 and 2034
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

**Free Customization Offerings:**

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

## Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

## Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

## Contents

### **1 EXECUTIVE SUMMARY**

### **2 PREFACE**

- 2.1 Abstract
- 2.2 Stake Holders
- 2.3 Research Scope
- 2.4 Research Methodology
  - 2.4.1 Data Mining
  - 2.4.2 Data Analysis
  - 2.4.3 Data Validation
  - 2.4.4 Research Approach
- 2.5 Research Sources
  - 2.5.1 Primary Research Sources
  - 2.5.2 Secondary Research Sources
  - 2.5.3 Assumptions

### **3 MARKET TREND ANALYSIS**

- 3.1 Introduction
- 3.2 Drivers
- 3.3 Restraints
- 3.4 Opportunities
- 3.5 Threats
- 3.6 Emerging Markets
- 3.7 Impact of Covid-19

### **4 PORTERS FIVE FORCE ANALYSIS**

- 4.1 Bargaining power of suppliers
- 4.2 Bargaining power of buyers
- 4.3 Threat of substitutes
- 4.4 Threat of new entrants
- 4.5 Competitive rivalry

### **5 GLOBAL KAIROMONES MARKET, BY TYPE**

- 5.1 Introduction
- 5.2 Host Kairomones
- 5.3 Predator Kairomones
- 5.4 Defense Kairomones
- 5.5 Alarm Kairomones
- 5.6 Social Signaling Kairomones

## **6 GLOBAL KAIROMONES MARKET, BY CROP TYPE**

- 6.1 Introduction
- 6.2 Horticulture Crops
- 6.3 Field Crops
- 6.4 Floriculture
- 6.5 Plantation Crops
- 6.6 Other Crop Types

## **7 GLOBAL KAIROMONES MARKET, BY FUNCTION**

- 7.1 Introduction
- 7.2 Detection & Monitoring
- 7.3 Mass Trapping
- 7.4 Mating Disruption
- 7.5 Other Functions

## **8 GLOBAL KAIROMONES MARKET, BY GEOGRAPHY**

- 8.1 Introduction
- 8.2 North America
  - 8.2.1 US
  - 8.2.2 Canada
  - 8.2.3 Mexico
- 8.3 Europe
  - 8.3.1 Germany
  - 8.3.2 UK
  - 8.3.3 Italy
  - 8.3.4 France
  - 8.3.5 Spain
  - 8.3.6 Rest of Europe
- 8.4 Asia Pacific

- 8.4.1 Japan
- 8.4.2 China
- 8.4.3 India
- 8.4.4 Australia
- 8.4.5 New Zealand
- 8.4.6 South Korea
- 8.4.7 Rest of Asia Pacific
- 8.5 South America
  - 8.5.1 Argentina
  - 8.5.2 Brazil
  - 8.5.3 Chile
  - 8.5.4 Rest of South America
- 8.6 Middle East & Africa
  - 8.6.1 Saudi Arabia
  - 8.6.2 UAE
  - 8.6.3 Qatar
  - 8.6.4 South Africa
  - 8.6.5 Rest of Middle East & Africa

## **9 KEY DEVELOPMENTS**

- 9.1 Agreements, Partnerships, Collaborations and Joint Ventures
- 9.2 Acquisitions & Mergers
- 9.3 New Product Launch
- 9.4 Expansions
- 9.5 Other Key Strategies

## **10 COMPANY PROFILING**

- 10.1 International Pheromone Systems
- 10.2 Novagrica Hellas S.A.
- 10.3 Russell IPM
- 10.4 Koppert Biological Systems
- 10.5 Suterra LLC
- 10.6 Synergy Semiochemicals Corporation
- 10.7 Tr?c? Inc.
- 10.8 Harmony Ecotech Pvt. Ltd.
- 10.9 SEDQ Healthy Crops
- 10.10 Sanidad Agricola Econex, LTD.

- 10.1 Bedoukian Research
- 10.12 Corteva Agriscience
- 10.13 Pacific Biocontrol Corp
- 10.14 Certis
- 10.15 Isagro Group

## List Of Tables

### LIST OF TABLES

- Table 1 Global Kairomones Market Outlook, By Region (2023-2034) (\$MN)
- Table 2 Global Kairomones Market Outlook, By Type (2023-2034) (\$MN)
- Table 3 Global Kairomones Market Outlook, By Host Kairomones (2023-2034) (\$MN)
- Table 4 Global Kairomones Market Outlook, By Predator Kairomones (2023-2034) (\$MN)
- Table 5 Global Kairomones Market Outlook, By Defense Kairomones (2023-2034) (\$MN)
- Table 6 Global Kairomones Market Outlook, By Alarm Kairomones (2023-2034) (\$MN)
- Table 7 Global Kairomones Market Outlook, By Social Signaling Kairomones (2023-2034) (\$MN)
- Table 8 Global Kairomones Market Outlook, By Crop Type (2023-2034) (\$MN)
- Table 9 Global Kairomones Market Outlook, By Horticulture Crops (2023-2034) (\$MN)
- Table 10 Global Kairomones Market Outlook, By Field Crops (2023-2034) (\$MN)
- Table 11 Global Kairomones Market Outlook, By Floriculture (2023-2034) (\$MN)
- Table 12 Global Kairomones Market Outlook, By Plantation Crops (2023-2034) (\$MN)
- Table 13 Global Kairomones Market Outlook, By Other Crop Types (2023-2034) (\$MN)
- Table 14 Global Kairomones Market Outlook, By Function (2023-2034) (\$MN)
- Table 15 Global Kairomones Market Outlook, By Detection & Monitoring (2023-2034) (\$MN)
- Table 16 Global Kairomones Market Outlook, By Mass Trapping (2023-2034) (\$MN)
- Table 17 Global Kairomones Market Outlook, By Mating Disruption (2023-2034) (\$MN)
- Table 18 Global Kairomones Market Outlook, By Other Functions (2023-2034) (\$MN)
- Table 19 North America Kairomones Market Outlook, By Country (2023-2034) (\$MN)
- Table 20 North America Kairomones Market Outlook, By Type (2023-2034) (\$MN)
- Table 21 North America Kairomones Market Outlook, By Host Kairomones (2023-2034) (\$MN)
- Table 22 North America Kairomones Market Outlook, By Predator Kairomones (2023-2034) (\$MN)
- Table 23 North America Kairomones Market Outlook, By Defense Kairomones (2023-2034) (\$MN)
- Table 24 North America Kairomones Market Outlook, By Alarm Kairomones (2023-2034) (\$MN)
- Table 25 North America Kairomones Market Outlook, By Social Signaling Kairomones (2023-2034) (\$MN)
- Table 26 North America Kairomones Market Outlook, By Crop Type (2023-2034) (\$MN)

Table 27 North America Kairomones Market Outlook, By Horticulture Crops (2023-2034) (\$MN)

Table 28 North America Kairomones Market Outlook, By Field Crops (2023-2034) (\$MN)

Table 29 North America Kairomones Market Outlook, By Floriculture (2023-2034) (\$MN)

Table 30 North America Kairomones Market Outlook, By Plantation Crops (2023-2034) (\$MN)

Table 31 North America Kairomones Market Outlook, By Other Crop Types (2023-2034) (\$MN)

Table 32 North America Kairomones Market Outlook, By Function (2023-2034) (\$MN)

Table 33 North America Kairomones Market Outlook, By Detection & Monitoring (2023-2034) (\$MN)

Table 34 North America Kairomones Market Outlook, By Mass Trapping (2023-2034) (\$MN)

Table 35 North America Kairomones Market Outlook, By Mating Disruption (2023-2034) (\$MN)

Table 36 North America Kairomones Market Outlook, By Other Functions (2023-2034) (\$MN)

Table 37 Europe Kairomones Market Outlook, By Country (2023-2034) (\$MN)

Table 38 Europe Kairomones Market Outlook, By Type (2023-2034) (\$MN)

Table 39 Europe Kairomones Market Outlook, By Host Kairomones (2023-2034) (\$MN)

Table 40 Europe Kairomones Market Outlook, By Predator Kairomones (2023-2034) (\$MN)

Table 41 Europe Kairomones Market Outlook, By Defense Kairomones (2023-2034) (\$MN)

Table 42 Europe Kairomones Market Outlook, By Alarm Kairomones (2023-2034) (\$MN)

Table 43 Europe Kairomones Market Outlook, By Social Signaling Kairomones (2023-2034) (\$MN)

Table 44 Europe Kairomones Market Outlook, By Crop Type (2023-2034) (\$MN)

Table 45 Europe Kairomones Market Outlook, By Horticulture Crops (2023-2034) (\$MN)

Table 46 Europe Kairomones Market Outlook, By Field Crops (2023-2034) (\$MN)

Table 47 Europe Kairomones Market Outlook, By Floriculture (2023-2034) (\$MN)

Table 48 Europe Kairomones Market Outlook, By Plantation Crops (2023-2034) (\$MN)

Table 49 Europe Kairomones Market Outlook, By Other Crop Types (2023-2034) (\$MN)

Table 50 Europe Kairomones Market Outlook, By Function (2023-2034) (\$MN)

Table 51 Europe Kairomones Market Outlook, By Detection & Monitoring (2023-2034) (\$MN)

Table 52 Europe Kairomones Market Outlook, By Mass Trapping (2023-2034) (\$MN)

Table 53 Europe Kairomones Market Outlook, By Mating Disruption (2023-2034) (\$MN)

Table 54 Europe Kairomones Market Outlook, By Other Functions (2023-2034) (\$MN)

Table 55 Asia Pacific Kairomones Market Outlook, By Country (2023-2034) (\$MN)

Table 56 Asia Pacific Kairomones Market Outlook, By Type (2023-2034) (\$MN)

Table 57 Asia Pacific Kairomones Market Outlook, By Host Kairomones (2023-2034) (\$MN)

Table 58 Asia Pacific Kairomones Market Outlook, By Predator Kairomones (2023-2034) (\$MN)

Table 59 Asia Pacific Kairomones Market Outlook, By Defense Kairomones (2023-2034) (\$MN)

Table 60 Asia Pacific Kairomones Market Outlook, By Alarm Kairomones (2023-2034) (\$MN)

Table 61 Asia Pacific Kairomones Market Outlook, By Social Signaling Kairomones (2023-2034) (\$MN)

Table 62 Asia Pacific Kairomones Market Outlook, By Crop Type (2023-2034) (\$MN)

Table 63 Asia Pacific Kairomones Market Outlook, By Horticulture Crops (2023-2034) (\$MN)

Table 64 Asia Pacific Kairomones Market Outlook, By Field Crops (2023-2034) (\$MN)

Table 65 Asia Pacific Kairomones Market Outlook, By Floriculture (2023-2034) (\$MN)

Table 66 Asia Pacific Kairomones Market Outlook, By Plantation Crops (2023-2034) (\$MN)

Table 67 Asia Pacific Kairomones Market Outlook, By Other Crop Types (2023-2034) (\$MN)

Table 68 Asia Pacific Kairomones Market Outlook, By Function (2023-2034) (\$MN)

Table 69 Asia Pacific Kairomones Market Outlook, By Detection & Monitoring (2023-2034) (\$MN)

Table 70 Asia Pacific Kairomones Market Outlook, By Mass Trapping (2023-2034) (\$MN)

Table 71 Asia Pacific Kairomones Market Outlook, By Mating Disruption (2023-2034) (\$MN)

Table 72 Asia Pacific Kairomones Market Outlook, By Other Functions (2023-2034) (\$MN)

Table 73 South America Kairomones Market Outlook, By Country (2023-2034) (\$MN)

Table 74 South America Kairomones Market Outlook, By Type (2023-2034) (\$MN)

Table 75 South America Kairomones Market Outlook, By Host Kairomones (2023-2034) (\$MN)

Table 76 South America Kairomones Market Outlook, By Predator Kairomones (2023-2034) (\$MN)

Table 77 South America Kairomones Market Outlook, By Defense Kairomones

(2023-2034) (\$MN)

Table 78 South America Kairomones Market Outlook, By Alarm Kairomones

(2023-2034) (\$MN)

Table 79 South America Kairomones Market Outlook, By Social Signaling Kairomones

(2023-2034) (\$MN)

Table 80 South America Kairomones Market Outlook, By Crop Type (2023-2034) (\$MN)

Table 81 South America Kairomones Market Outlook, By Horticulture Crops

(2023-2034) (\$MN)

Table 82 South America Kairomones Market Outlook, By Field Crops (2023-2034)

(\$MN)

Table 83 South America Kairomones Market Outlook, By Floriculture (2023-2034)

(\$MN)

Table 84 South America Kairomones Market Outlook, By Plantation Crops (2023-2034)

(\$MN)

Table 85 South America Kairomones Market Outlook, By Other Crop Types

(2023-2034) (\$MN)

Table 86 South America Kairomones Market Outlook, By Function (2023-2034) (\$MN)

Table 87 South America Kairomones Market Outlook, By Detection & Monitoring

(2023-2034) (\$MN)

Table 88 South America Kairomones Market Outlook, By Mass Trapping (2023-2034)

(\$MN)

Table 89 South America Kairomones Market Outlook, By Mating Disruption (2023-2034)

(\$MN)

Table 90 South America Kairomones Market Outlook, By Other Functions (2023-2034)

(\$MN)

Table 91 Middle East & Africa Kairomones Market Outlook, By Country (2023-2034)

(\$MN)

Table 92 Middle East & Africa Kairomones Market Outlook, By Type (2023-2034) (\$MN)

Table 93 Middle East & Africa Kairomones Market Outlook, By Host Kairomones

(2023-2034) (\$MN)

Table 94 Middle East & Africa Kairomones Market Outlook, By Predator Kairomones

(2023-2034) (\$MN)

Table 95 Middle East & Africa Kairomones Market Outlook, By Defense Kairomones

(2023-2034) (\$MN)

Table 96 Middle East & Africa Kairomones Market Outlook, By Alarm Kairomones

(2023-2034) (\$MN)

Table 97 Middle East & Africa Kairomones Market Outlook, By Social Signaling

Kairomones (2023-2034) (\$MN)

Table 98 Middle East & Africa Kairomones Market Outlook, By Crop Type (2023-2034)

(\$MN)

Table 99 Middle East & Africa Kairomones Market Outlook, By Horticulture Crops  
(2023-2034) (\$MN)

Table 100 Middle East & Africa Kairomones Market Outlook, By Field Crops  
(2023-2034) (\$MN)

Table 101 Middle East & Africa Kairomones Market Outlook, By Floriculture  
(2023-2034) (\$MN)

Table 102 Middle East & Africa Kairomones Market Outlook, By Plantation Crops  
(2023-2034) (\$MN)

Table 103 Middle East & Africa Kairomones Market Outlook, By Other Crop Types  
(2023-2034) (\$MN)

Table 104 Middle East & Africa Kairomones Market Outlook, By Function (2023-2034)  
(\$MN)

Table 105 Middle East & Africa Kairomones Market Outlook, By Detection & Monitoring  
(2023-2034) (\$MN)

Table 106 Middle East & Africa Kairomones Market Outlook, By Mass Trapping  
(2023-2034) (\$MN)

Table 107 Middle East & Africa Kairomones Market Outlook, By Mating Disruption  
(2023-2034) (\$MN)

Table 108 Middle East & Africa Kairomones Market Outlook, By Other Functions  
(2023-2034) (\$MN)

## I would like to order

Product name: Kairomones Market Forecasts to 2034 – Global Analysis By Type (Host Kairomones, Predator Kairomones, Defense Kairomones, Alarm Kairomones and Social Signaling Kairomones), Crop Type, Function and By Geography

Product link: <https://marketpublishers.com/r/K1CC270A79B6EN.html>

Price: US\$ 4,150.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/K1CC270A79B6EN.html>