

# **Agricultural Fumigants Market: Segmented By Type (Phosphine, Chloropicrin, Telone, Metam Sodium And Others), By Application (Soil, Warehouse, and Others), And Region – Global Analysis Of Market Size, Share & Trends For 2019–2020 And Forecasts To 2031**

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## **Abstracts**

[ 176 + Pages Research Report ] Agricultural Fumigants Market to surpass USD 2.42 billion by 2031 from USD 1.78 billion in 2021 at a CAGR of 3.08% in the coming years, i.e., 2021-31

### **Product Overview**

The agricultural fumigation Market is used to get rid of soil diseases and pests before planting. Soil fumigation is universally employed wherever high-value agricultural crops are subjected to recurred monocultures. The chemical compounds used in soil fumigation have low boiling points, high vapor densities, relatively high Henry's Law constants (a measure of their partition potential between air and water phases), and are toxic to an extensive spectrum of biological organisms.

### **Market Highlights**

Global Agricultural Fumigants market is expected to project a notable CAGR of 3.08% in 2031.

Global Agricultural Fumigants Market to surpass USD 2.42 billion by 2031 from USD 1.78 billion in 2021 at a CAGR of 3.08% in the coming years, i.e., 2021-31. The rise in the adoption of agricultural fumigants can be attributed to the growing infestation of pests & insects in storage and other crop storage rooms owing to biotic and abiotic factors, awareness about crop protection chemicals, and growth in markets. Markets such as China and India are among the main markets targeted by agricultural fumigants

service suppliers owing to the existence of the post-harvest losses every year, causing loss to the farmers and other stakeholders involved. These are the chief factors that play a vital role in the adoption of agricultural fumigants services in the region.

### Global Agricultural Fumigants: Segments

Phosphine segment to grow with the highest CAGR during 2021-31

Global Agricultural Fumigants market is classified on the basis of Type into Phosphine, Chloropicrin, Telone, Metam Sodium, and others. The maximum share of this segment is mainly attributed to its growing application in both developed and developing countries as an alternative to methyl bromide. Furthermore, other reasons such as phosphine's high degree of penetration, easy accessibility, less toxic nature, and more effectiveness as compared to other fumigants are further boosting the growth of phosphine fumigants market and supporting its supremacy in the global agricultural fumigants market.

Warehouse segment to grow with the highest CAGR during 2021-31

Based on application, the global Agricultural Fumigants Market fragmented into Soil, Warehouse, and Others. A warehouse is a leading application in Agricultural Fumigants Market. Warehouses are significant as the agricultural crop can be stored there as long as the farmer is not willing to sell his produce. In warehouses, the efficient use of fumigants results in maintaining crop value and productivity, which leads to market competitiveness. Several methods of pest control are deployed to kill, repel, or suppress insects, nematodes, and other pests that harm infrastructure, stored food in warehouses. The agricultural fumigants market is gaining traction owing to the severe pest infestation caused in warehouses.

### Market Dynamics

#### Drivers

Rising focus on the reduction of post-harvest losses

Reduction of post-harvest food losses is a critical factor for ensuring food security. Post-harvest losses rise from freshly harvested agricultural produce undergoing changes during handling. Post-harvest damages can be avoided by undertaking fumigation for pest prevention. For example, the decay of citrus waste is controlled by ammonia gas fumigation. Thus, fumigation technology helps in preventing post-harvest losses to keep the superiority of agricultural commodities. Thus, helps the market to grow lucratively.

## The new invention as alternatives for methyl bromide fumigation

Increasing tolerance of pests toward methyl bromide fumigation, followed by its phasing out, has caused the adoption of suitable substitutes for methyl bromide for the management of stored products and to quarantine pests. Methyl bromide fumigant has many substitutes, such as phosphine, sulfuryl fluoride, carbonyl sulfide, ethyl formate, hydrogen cyanide, and methyl isothiocyanate. Thus, producers are concentrating on new product expansions by investing in R&D activities for active ingredients that can inhibit resistant insects by using these substitute fumigants.

## Restraint

### The high amount of residue during fumigation

The volume of residue that is leftover in the materials treated with fumigants is known by the conditions prevailing during fumigation and by the handling of the material thereon. In some cases, deposit levels may be held to a minimum if several factors that lead to residue accumulation are considered before the treatment. Fumigants with high boiling points continue to present as residues for an extended time period than the more volatile compounds. For instance, acrylonitrile was found to continue in wheat for several days, whereas methyl bromide dissipates in a few hours. Fumigants that react with plant or animal constituents may also leave a substantial residue.

## Global Agricultural Fumigants: Key Players

BASF SE (Germany)

Company Overview, Business Strategy, Key Product Offerings, Financial Performance, Key Performance Indicators, Risk Analysis, Recent Development, Regional Presence, SWOT Analysis

Syngenta (Switzerland)

ADAMA (Israel)

ARKEMA (Germany)

Nufarm (Australia)

Solvay (Belgium)

Tessenderlo Kerley, Inc. (Belgium)

SGS SA (Switzerland)

UPL (India)

AMVAC (US)

Trinity Manufacturing, Inc. (Germany)

Douglas products (US)

Intertek (UK)

Nippon Chemical Industrial Co., LTD. (Japan)

DEGESCH America, Inc. (US)

Other Prominent Players

Global Agricultural Fumigants: Regions

Global Agricultural Fumigants market is segmented based on regional analysis into five major regions: North America, Latin America, Europe, Asia Pacific, and the Middle East and Africa. The Asia Pacific dominates the Agricultural Fumigants market. This is attributed because of the conducive climatic circumstances, there is a high outbreak of pests and insects observed in warehouses and other storage places. In order to prevent post-harvest losses, farmers choose agricultural fumigants to generate profits.

Global Agricultural Fumigants is further segmented by region into:

North America Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – United States and Canada

Latin America Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – Mexico, Argentina, Brazil and Rest of Latin America

Europe Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – United Kingdom, France, Germany, Italy, Spain, Belgium, Hungary, Luxembourg, Netherlands, Poland, NORDIC, Russia, Turkey and Rest of Europe

Asia Pacific Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – India, China, South Korea, Japan, Malaysia, Indonesia, New Zealand, Australia and Rest of APAC

Middle East and Africa Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – North Africa, Israel, GCC, South Africa and Rest of MENA

Global Agricultural Fumigants report also contains analysis on:

Agricultural Fumigants Segments:

By Type

Phosphine, Chloropicrin

Telone

Metam Sodium

Others

By Application

Soil

Warehouse

Others

Agricultural Fumigants Dynamics  
Agricultural Fumigants Size  
Supply & Demand  
Current Trends/Issues/Challenges  
Competition & Companies Involved in the Market  
Value Chain of the Market  
Market Drivers and Restraints  
Agricultural Fumigants Market Report Scope and Segmentation  
Report Attribute Details  
The market size value in 2021 USD 1.78 billion  
The revenue forecast in 2031 USD 2.42 billion  
Growth Rate

CAGR of 9.25% from 2021 to 2031

The base year for estimation 2020

Quantitative units Revenue in USD million and CAGR from 2021 to 2030

Report coverage Revenue forecast, company ranking, competitive landscape, growth factors, and trends

Segments covered Type, Application and Region

Regional scope North America, Europe, Asia Pacific, Latin America, Middle East & Africa (MEA)

Key companies profiled BASF SE (Germany), Syngenta (Switzerland), ADAMA (Israel), ARKEMA (Germany), Nufarm (Australia), Solvay (Belgium), Tessenderlo Kerley, Inc. (Belgium), SGS SA (Switzerland), UPL (India), AMVAC (US), Trinity Manufacturing, Inc. (Germany), Douglas products (US), Intertek (UK), Nippon Chemical Industrial Co., LTD. (Japan), DEGESCH America, Inc. (US) and Other Prominent Players

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\*\*The above given segmentations and companies could be subjected to further modification based on in-depth feasibility studies conducted for the final deliverable.

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