

Diisopropyl Malonate Global Market Insights 2025, Analysis and Forecast to 2030, by Manufacturers, Regions, Technology, Application

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Abstracts

Diisopropyl Malonate Market Summary

Introduction

Diisopropyl Malonate is a specialty chemical primarily used as an intermediate in the production of Isoprothiolane, a systemic fungicide applied to control rice diseases such as stem rot, blast, and Fusarium leaf spot. The market is highly niche, with its demand closely linked to global rice production, which the USDA estimates at 516 million tons for the 2023/2024 season. The Asia Pacific region, accounting for 90% of the world's rice output, drives the majority of consumption, with China and India producing about 60% of the region's total. Diisopropyl Malonate is synthesized through a reaction with carbon disulfide and ethylene dichloride in the presence of potassium hydroxide, yielding crude Isoprothiolane technical. Hebei Chengxin, the largest producer with a 2,000-ton capacity, dominates this market, supported by Weifang Binhai Petro-Chem Co. Ltd., reflecting its concentrated production base.

Market Size and Growth Forecast

The global Diisopropyl Malonate market is projected to reach 5 to 10 million USD by 2025, with an estimated compound annual growth rate (CAGR) of 1.5% to 2.5%. This modest growth reflects stable demand tied to rice cultivation and disease management needs.

Regional Analysis

The market's regional trends are heavily influenced by rice production:

Asia Pacific: Growth of 2.0-3.0%. China and India dominate, with India's rice output projected to increase 17% by 2030, boosting fungicide demand. China's output is

expected to grow only 4% over the same period, maintaining steady consumption.

Other Regions: Minimal growth of 0.5-1.5%. Limited rice production in North America, Europe, and other areas restricts Diisopropyl Malonate demand, with minor use in specialty applications.

Asia Pacific overwhelmingly leads the market, with China and India as the primary consumers due to their significant rice production and agricultural focus.

Application Analysis

Diisopropyl Malonate's applications are narrow but critical:

Isoprothiolane: Growth of 1.5-2.5%. As a systemic fungicide, Isoprothiolane's demand is tied to rice disease prevalence and agricultural output, with steady growth in Asia's rice-heavy economies.

Others: Growth of 1.0-2.0%. Includes minor uses in chemical synthesis, with limited expansion due to the market's niche focus.

The market's growth is constrained by its reliance on Isoprothiolane, though trends in sustainable agriculture support its continued relevance.

Key Market Players

The market features two key producers:

Hebei Chengxin: The global leader with a 2,000-ton capacity, Hebei Chengxin supplies Diisopropyl Malonate primarily for agrochemical use in Asia.

Weifang Binhai Petro-Chem Co. Ltd.: A notable Chinese producer, this company supports the market with its expertise in specialty chemicals.

Hebei Chengxin's dominance underscores the market's concentrated structure.

Porter's Five Forces Analysis

Threat of New Entrants: Low. The niche nature of the market, combined with high production expertise, deters new players, preserving the dominance of established firms.

Threat of Substitutes: Low. Few alternatives exist for Isoprothiolane production, securing Diisopropyl Malonate's position in rice fungicide synthesis.

Bargaining Power of Buyers: High. Agrochemical companies, particularly in Asia, can influence pricing due to their reliance on few suppliers, giving them leverage.

Bargaining Power of Suppliers: Moderate. Raw material suppliers have some control, but the market's small scale limits their overall impact.

Competitive Rivalry: Low. With only a handful of players, competition is minimal, focusing on reliability and capacity rather than aggressive market share battles.

Market Opportunities and Challenges

Opportunities:

Growth in rice production, especially in India, offers potential for increased Isoprothiolane demand.

Innovations in fungicide formulations could enhance Diisopropyl Malonate's utility in rice disease management.

Rising focus on food security in Asia supports long-term demand for rice-related agrochemicals.

Challenges:

The market's small size and narrow application scope limit significant growth opportunities.

Dependence on rice cultivation trends exposes it to risks from weather, policy changes, or shifts in agricultural practices.

Regulatory restrictions on agrochemicals pose compliance challenges for producers.

Contents

CHAPTER 1 EXECUTIVE SUMMARY

CHAPTER 2 ABBREVIATION AND ACRONYMS

CHAPTER 3 PREFACE

- 3.1 Research Scope
- 3.2 Research Sources
 - 3.2.1 Data Sources
 - 3.2.2 Assumptions
- 3.3 Research Method

CHAPTER 4 MARKET LANDSCAPE

- 4.1 Market Overview
- 4.2 Classification/Types
- 4.3 Application/End Users

CHAPTER 5 MARKET TREND ANALYSIS

- 5.1 Introduction
- 5.2 Drivers
- 5.3 Restraints
- 5.4 Opportunities
- 5.5 Threats

CHAPTER 6 INDUSTRY CHAIN ANALYSIS

- 6.1 Upstream/Suppliers Analysis
- 6.2 Diisopropyl Malonate Analysis
 - 6.2.1 Technology Analysis
 - 6.2.2 Cost Analysis
 - 6.2.3 Market Channel Analysis
- 6.3 Downstream Buyers/End Users

CHAPTER 7 LATEST MARKET DYNAMICS

- 7.1 Latest News
- 7.2 Merger and Acquisition
- 7.3 Planned/Future Project
- 7.4 Policy Dynamics

CHAPTER 8 TRADING ANALYSIS

- 8.1 Export of Diisopropyl Malonate by Region
- 8.2 Import of Diisopropyl Malonate by Region
- 8.3 Balance of Trade

CHAPTER 9 HISTORICAL AND FORECAST DIISOPROPYL MALONATE MARKET IN NORTH AMERICA (2020-2030)

- 9.1 Diisopropyl Malonate Market Size
- 9.2 Diisopropyl Malonate Demand by End Use
- 9.3 Competition by Players/Suppliers
- 9.4 Type Segmentation and Price
- 9.5 Key Countries Analysis
 - 9.5.1 United States
 - 9.5.2 Canada
 - 9.5.3 Mexico

CHAPTER 10 HISTORICAL AND FORECAST DIISOPROPYL MALONATE MARKET IN SOUTH AMERICA (2020-2030)

- 10.1 Diisopropyl Malonate Market Size
- 10.2 Diisopropyl Malonate Demand by End Use
- 10.3 Competition by Players/Suppliers
- 10.4 Type Segmentation and Price
- 10.5 Key Countries Analysis
 - 10.5.1 Brazil
 - 10.5.2 Argentina
 - 10.5.3 Chile
 - 10.5.4 Peru

CHAPTER 11 HISTORICAL AND FORECAST DIISOPROPYL MALONATE MARKET IN ASIA & PACIFIC (2020-2030)

- 11.1 Diisopropyl Malonate Market Size
- 11.2 Diisopropyl Malonate Demand by End Use
- 11.3 Competition by Players/Suppliers
- 11.4 Type Segmentation and Price
- 11.5 Key Countries Analysis
 - 11.5.1 China
 - 11.5.2 India
 - 11.5.3 Japan
 - 11.5.4 South Korea
 - 11.5.5 Southeast Asia
 - 11.5.6 Australia

CHAPTER 12 HISTORICAL AND FORECAST DIISOPROPYL MALONATE MARKET IN EUROPE (2020-2030)

- 12.1 Diisopropyl Malonate Market Size
- 12.2 Diisopropyl Malonate Demand by End Use
- 12.3 Competition by Players/Suppliers
- 12.4 Type Segmentation and Price
- 12.5 Key Countries Analysis
 - 12.5.1 Germany
 - 12.5.2 France
 - 12.5.3 United Kingdom
 - 12.5.4 Italy
 - 12.5.5 Spain
 - 12.5.6 Belgium
 - 12.5.7 Netherlands
 - 12.5.8 Austria
 - 12.5.9 Poland
 - 12.5.10 Russia

CHAPTER 13 HISTORICAL AND FORECAST DIISOPROPYL MALONATE MARKET IN MEA (2020-2030)

- 13.1 Diisopropyl Malonate Market Size
- 13.2 Diisopropyl Malonate Demand by End Use
- 13.3 Competition by Players/Suppliers
- 13.4 Type Segmentation and Price
- 13.5 Key Countries Analysis

- 13.5.1 Egypt
- 13.5.2 Israel
- 13.5.3 South Africa
- 13.5.4 Gulf Cooperation Council Countries
- 13.5.5 Turkey

CHAPTER 14 SUMMARY FOR GLOBAL DIISOPROPYL MALONATE MARKET (2020-2025)

- 14.1 Diisopropyl Malonate Market Size
- 14.2 Diisopropyl Malonate Demand by End Use
- 14.3 Competition by Players/Suppliers
- 14.4 Type Segmentation and Price

CHAPTER 15 GLOBAL DIISOPROPYL MALONATE MARKET FORECAST (2025-2030)

- 15.1 Diisopropyl Malonate Market Size Forecast
- 15.2 Diisopropyl Malonate Demand Forecast
- 15.3 Competition by Players/Suppliers
- 15.4 Type Segmentation and Price Forecast

CHAPTER 16 ANALYSIS OF GLOBAL KEY VENDORS

- 16.1 Hebei Chengxin
 - 16.1.1 Company Profile
 - 16.1.2 Main Business and Diisopropyl Malonate Information
 - 16.1.3 SWOT Analysis of Hebei Chengxin
 - 16.1.4 Hebei Chengxin Diisopropyl Malonate Sales, Revenue, Price and Gross Margin (2020-2025)
 - 16.2 Weifang Binhai Petro-Chem Co. Ltd.
 - 16.2.1 Company Profile
 - 16.2.2 Main Business and Diisopropyl Malonate Information
 - 16.2.3 SWOT Analysis of Weifang Binhai Petro-Chem Co. Ltd.
 - 16.2.4 Weifang Binhai Petro-Chem Co. Ltd. Diisopropyl Malonate Sales, Revenue, Price and Gross Margin (2020-2025)
- Please ask for sample pages for full companies list
Tables and Figures
Table Abbreviation and Acronyms List

Table Research Scope of Diisopropyl Malonate Report
Table Data Sources of Diisopropyl Malonate Report
Table Major Assumptions of Diisopropyl Malonate Report
Figure Market Size Estimated Method
Figure Major Forecasting Factors
Figure Diisopropyl Malonate Picture
Table Diisopropyl Malonate Classification
Table Diisopropyl Malonate Applications List
Table Drivers of Diisopropyl Malonate Market
Table Restraints of Diisopropyl Malonate Market
Table Opportunities of Diisopropyl Malonate Market
Table Threats of Diisopropyl Malonate Market
Table Raw Materials Suppliers List
Table Different Production Methods of Diisopropyl Malonate
Table Cost Structure Analysis of Diisopropyl Malonate
Table Key End Users List
Table Latest News of Diisopropyl Malonate Market
Table Merger and Acquisition List
Table Planned/Future Project of Diisopropyl Malonate Market
Table Policy of Diisopropyl Malonate Market
Table 2020-2030 Regional Export of Diisopropyl Malonate
Table 2020-2030 Regional Import of Diisopropyl Malonate
Table 2020-2030 Regional Trade Balance
Figure 2020-2030 Regional Trade Balance
Table 2020-2030 North America Diisopropyl Malonate Market Size and Market Volume List
Figure 2020-2030 North America Diisopropyl Malonate Market Size and CAGR
Figure 2020-2030 North America Diisopropyl Malonate Market Volume and CAGR
Table 2020-2030 North America Diisopropyl Malonate Demand List by Application
Table 2020-2025 North America Diisopropyl Malonate Key Players Sales List
Table 2020-2025 North America Diisopropyl Malonate Key Players Market Share List
Table 2020-2030 North America Diisopropyl Malonate Demand List by Type
Table 2020-2025 North America Diisopropyl Malonate Price List by Type
Table 2020-2030 United States Diisopropyl Malonate Market Size and Market Volume List
Table 2020-2030 United States Diisopropyl Malonate Import & Export List
Table 2020-2030 Canada Diisopropyl Malonate Market Size and Market Volume List
Table 2020-2030 Canada Diisopropyl Malonate Import & Export List
Table 2020-2030 Mexico Diisopropyl Malonate Market Size and Market Volume List

Table 2020-2030 Mexico Diisopropyl Malonate Import & Export List

Table 2020-2030 South America Diisopropyl Malonate Market Size and Market Volume List

Figure 2020-2030 South America Diisopropyl Malonate Market Size and CAGR

Figure 2020-2030 South America Diisopropyl Malonate Market Volume and CAGR

Table 2020-2030 South America Diisopropyl Malonate Demand List by Application

Table 2020-2025 South America Diisopropyl Malonate Key Players Sales List

Table 2020-2025 South America Diisopropyl Malonate Key Players Market Share List

Table 2020-2030 South America Diisopropyl Malonate Demand List by Type

Table 2020-2025 South America Diisopropyl Malonate Price List by Type

Table 2020-2030 Brazil Diisopropyl Malonate Market Size and Market Volume List

Table 2020-2030 Brazil Diisopropyl Malonate Import & Export List

Table 2020-2030 Argentina Diisopropyl Malonate Market Size and Market Volume List

Table 2020-2030 Argentina Diisopropyl Malonate Import & Export List

Table 2020-2030 Chile Diisopropyl Malonate Market Size and Market Volume List

Table 2020-2030 Chile Diisopropyl Malonate Import & Export List

Table 2020-2030 Peru Diisopropyl Malonate Market Size and Market Volume List

Table 2020-2030 Peru Diisopropyl Malonate Import & Export List

Table 2020-2030 Asia & Pacific Diisopropyl Malonate Market Size and Market Volume List

Figure 2020-2030 Asia & Pacific Diisopropyl Malonate Market Size and CAGR

Figure 2020-2030 Asia & Pacific Diisopropyl Malonate Market Volume and CAGR

Table 2020-2030 Asia & Pacific Diisopropyl Malonate Demand List by Application

Table 2020-2025 Asia & Pacific Diisopropyl Malonate Key Players Sales List

Table 2020-2025 Asia & Pacific Diisopropyl Malonate Key Players Market Share List

Table 2020-2030 Asia & Pacific Diisopropyl Malonate Demand List by Type

Table 2020-2025 Asia & Pacific Diisopropyl Malonate Price List by Type

Table 2020-2030 China Diisopropyl Malonate Market Size and Market Volume List

Table 2020-2030 China Diisopropyl Malonate Import & Export List

Table 2020-2030 India Diisopropyl Malonate Market Size and Market Volume List

Table 2020-2030 India Diisopropyl Malonate Import & Export List

Table 2020-2030 Japan Diisopropyl Malonate Market Size and Market Volume List

Table 2020-2030 Japan Diisopropyl Malonate Import & Export List

Table 2020-2030 South Korea Diisopropyl Malonate Market Size and Market Volume List

Table 2020-2030 South Korea Diisopropyl Malonate Import & Export List

Table 2020-2030 Southeast Asia Diisopropyl Malonate Market Size List

Table 2020-2030 Southeast Asia Diisopropyl Malonate Market Volume List

Table 2020-2030 Southeast Asia Diisopropyl Malonate Import List

Table 2020-2030 Southeast Asia Diisopropyl Malonate Export List
Table 2020-2030 Australia Diisopropyl Malonate Market Size and Market Volume List
Table 2020-2030 Australia Diisopropyl Malonate Import & Export List
Table 2020-2030 Europe Diisopropyl Malonate Market Size and Market Volume List
Figure 2020-2030 Europe Diisopropyl Malonate Market Size and CAGR
Figure 2020-2030 Europe Diisopropyl Malonate Market Volume and CAGR
Table 2020-2030 Europe Diisopropyl Malonate Demand List by Application
Table 2020-2025 Europe Diisopropyl Malonate Key Players Sales List
Table 2020-2025 Europe Diisopropyl Malonate Key Players Market Share List
Table 2020-2030 Europe Diisopropyl Malonate Demand List by Type
Table 2020-2025 Europe Diisopropyl Malonate Price List by Type
Table 2020-2030 Germany Diisopropyl Malonate Market Size and Market Volume List
Table 2020-2030 Germany Diisopropyl Malonate Import & Export List
Table 2020-2030 France Diisopropyl Malonate Market Size and Market Volume List
Table 2020-2030 France Diisopropyl Malonate Import & Export List
Table 2020-2030 United Kingdom Diisopropyl Malonate Market Size and Market Volume List
Table 2020-2030 United Kingdom Diisopropyl Malonate Import & Export List
Table 2020-2030 Italy Diisopropyl Malonate Market Size and Market Volume List
Table 2020-2030 Italy Diisopropyl Malonate Import & Export List
Table 2020-2030 Spain Diisopropyl Malonate Market Size and Market Volume List
Table 2020-2030 Spain Diisopropyl Malonate Import & Export List
Table 2020-2030 Belgium Diisopropyl Malonate Market Size and Market Volume List
Table 2020-2030 Belgium Diisopropyl Malonate Import & Export List
Table 2020-2030 Netherlands Diisopropyl Malonate Market Size and Market Volume List
Table 2020-2030 Netherlands Diisopropyl Malonate Import & Export List
Table 2020-2030 Austria Diisopropyl Malonate Market Size and Market Volume List
Table 2020-2030 Austria Diisopropyl Malonate Import & Export List
Table 2020-2030 Poland Diisopropyl Malonate Market Size and Market Volume List
Table 2020-2030 Poland Diisopropyl Malonate Import & Export List
Table 2020-2030 Russia Diisopropyl Malonate Market Size and Market Volume List
Table 2020-2030 Russia Diisopropyl Malonate Import & Export List
Table 2020-2030 MEA Diisopropyl Malonate Market Size and Market Volume List
Figure 2020-2030 MEA Diisopropyl Malonate Market Size and CAGR
Figure 2020-2030 MEA Diisopropyl Malonate Market Volume and CAGR
Table 2020-2030 MEA Diisopropyl Malonate Demand List by Application
Table 2020-2025 MEA Diisopropyl Malonate Key Players Sales List
Table 2020-2025 MEA Diisopropyl Malonate Key Players Market Share List

Table 2020-2030 MEA Diisopropyl Malonate Demand List by Type
Table 2020-2025 MEA Diisopropyl Malonate Price List by Type
Table 2020-2030 Egypt Diisopropyl Malonate Market Size and Market Volume List
Table 2020-2030 Egypt Diisopropyl Malonate Import & Export List
Table 2020-2030 Israel Diisopropyl Malonate Market Size and Market Volume List
Table 2020-2030 Israel Diisopropyl Malonate Import & Export List
Table 2020-2030 South Africa Diisopropyl Malonate Market Size and Market Volume List
Table 2020-2030 South Africa Diisopropyl Malonate Import & Export List
Table 2020-2030 Gulf Cooperation Council Countries Diisopropyl Malonate Market Size and Market Volume List
Table 2020-2030 Gulf Cooperation Council Countries Diisopropyl Malonate Import & Export List
Table 2020-2030 Turkey Diisopropyl Malonate Market Size and Market Volume List
Table 2020-2030 Turkey Diisopropyl Malonate Import & Export List
Table 2020-2025 Global Diisopropyl Malonate Market Size List by Region
Table 2020-2025 Global Diisopropyl Malonate Market Size Share List by Region
Table 2020-2025 Global Diisopropyl Malonate Market Volume List by Region
Table 2020-2025 Global Diisopropyl Malonate Market Volume Share List by Region
Table 2020-2025 Global Diisopropyl Malonate Demand List by Application
Table 2020-2025 Global Diisopropyl Malonate Demand Market Share List by Application
Table 2020-2025 Global Diisopropyl Malonate Capacity List
Table 2020-2025 Global Diisopropyl Malonate Key Vendors Capacity Share List
Table 2020-2025 Global Diisopropyl Malonate Key Vendors Production List
Table 2020-2025 Global Diisopropyl Malonate Key Vendors Production Share List
Figure 2020-2025 Global Diisopropyl Malonate Capacity Production and Growth Rate
Table 2020-2025 Global Diisopropyl Malonate Key Vendors Production Value List
Figure 2020-2025 Global Diisopropyl Malonate Production Value and Growth Rate
Table 2020-2025 Global Diisopropyl Malonate Key Vendors Production Value Share List
Table 2020-2025 Global Diisopropyl Malonate Demand List by Type
Table 2020-2025 Global Diisopropyl Malonate Demand Market Share List by Type
Table 2020-2025 Regional Diisopropyl Malonate Price List
Table 2025-2030 Global Diisopropyl Malonate Market Size List by Region
Table 2025-2030 Global Diisopropyl Malonate Market Size Share List by Region
Table 2025-2030 Global Diisopropyl Malonate Market Volume List by Region
Table 2025-2030 Global Diisopropyl Malonate Market Volume Share List by Region
Table 2025-2030 Global Diisopropyl Malonate Demand List by Application

Table 2025-2030 Global Diisopropyl Malonate Demand Market Share List by Application

Table 2025-2030 Global Diisopropyl Malonate Capacity List

Table 2025-2030 Global Diisopropyl Malonate Key Vendors Capacity Share List

Table 2025-2030 Global Diisopropyl Malonate Key Vendors Production List

Table 2025-2030 Global Diisopropyl Malonate Key Vendors Production Share List

Figure 2025-2030 Global Diisopropyl Malonate Capacity Production and Growth Rate

Table 2025-2030 Global Diisopropyl Malonate Key Vendors Production Value List

Figure 2025-2030 Global Diisopropyl Malonate Production Value and Growth Rate

Table 2025-2030 Global Diisopropyl Malonate Key Vendors Production Value Share List

Table 2025-2030 Global Diisopropyl Malonate Demand List by Type

Table 2025-2030 Global Diisopropyl Malonate Demand Market Share List by Type

Table 2025-2030 Diisopropyl Malonate Regional Price List

Table Hebei Chengxin Information

Table SWOT Analysis of Hebei Chengxin

Table 2020-2025 Hebei Chengxin Diisopropyl Malonate Product Capacity Production Price Cost Production Value

Figure 2020-2025 Hebei Chengxin Diisopropyl Malonate Capacity Production and Growth Rate

Figure 2020-2025 Hebei Chengxin Diisopropyl Malonate Market Share

Table Weifang Binhai Petro-Chem Co. Ltd. Information

Table SWOT Analysis of Weifang Binhai Petro-Chem Co. Ltd.

Table 2020-2025 Weifang Binhai Petro-Chem Co. Ltd. Diisopropyl Malonate Product Capacity Production Price Cost Production Value

Figure 2020-2025 Weifang Binhai Petro-Chem Co. Ltd. Diisopropyl Malonate Capacity Production and Growth Rate

Figure 2020-2025 Weifang Binhai Petro-Chem Co. Ltd. Diisopropyl Malonate Market Share

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