

Global Metal-Organic Frameworks (MOF) Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

<https://marketpublishers.com/r/G15946B0680EN.html>

Date: January 2024

Pages: 88

Price: US\$ 3,480.00 (Single User License)

ID: G15946B0680EN

Abstracts

According to our (Global Info Research) latest study, the global Metal-Organic Frameworks (MOF) market size was valued at USD 362.1 million in 2023 and is forecast to a readjusted size of USD 1300.4 million by 2030 with a CAGR of 20.0% during review period.

Metal Organic Frameworks (MOFs) also called as Porous Coordination Polymers (PCPs) or coordination networks are crystalline material that can be readily self-assembled from metal ions or metal clusters with organic ligands. They display permanent porosity with the enormous internal surface area and large structural diversity and thus lead to a wide spectrum of applications including gas capture and storage, molecule separations, ion-exchange, drug delivery, sensing, catalysis, luminescence. Metal-organic frameworks (MOFs) are (often) crystalline materials that possess nanometer-sized cavities and exhibit large internal surface areas (>7000 m²/g) decorable with functional groups. MOFs are synthesized modularly from molecular building blocks: organic linker molecules and inorganic nodes. owing to the (i) abundance of compatible molecular building blocks, (ii) many topologies in which the building blocks assemble, and (iii) post-synthetic modifiability, the number of possible MOF structures is practically limitless.

Global key players of metal-organic frameworks (MOF) include BASF, MOFapps and Strem Chemicals. The top three players hold a share about 97%. Europe is the largest production region, with a market share of over 95%. In terms of product, zinc-based is the largest segment, with a share about 17%. And in terms of application, the largest application is gas storage, with a share about 61%.

The Global Info Research report includes an overview of the development of the Metal-Organic Frameworks (MOF) industry chain, the market status of Gas Storage (Zinc-Based, Copper-Based), Adsorption Separation (Zinc-Based, Copper-Based), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Metal-Organic Frameworks (MOF).

Regionally, the report analyzes the Metal-Organic Frameworks (MOF) markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Metal-Organic Frameworks (MOF) market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Metal-Organic Frameworks (MOF) market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Metal-Organic Frameworks (MOF) industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (Kg), revenue generated, and market share of different by Type (e.g., Zinc-Based, Copper-Based).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Metal-Organic Frameworks (MOF) market.

Regional Analysis: The report involves examining the Metal-Organic Frameworks (MOF) market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Metal-Organic Frameworks (MOF) market. This may include estimating market growth rates, predicting market demand, and identifying

emerging trends.

The report also involves a more granular approach to Metal-Organic Frameworks (MOF):

Company Analysis: Report covers individual Metal-Organic Frameworks (MOF) manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Metal-Organic Frameworks (MOF). This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Gas Storage, Adsorption Separation).

Technology Analysis: Report covers specific technologies relevant to Metal-Organic Frameworks (MOF). It assesses the current state, advancements, and potential future developments in Metal-Organic Frameworks (MOF) areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Metal-Organic Frameworks (MOF) market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Metal-Organic Frameworks (MOF) market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

Zinc-Based

Copper-Based

Iron-Based

Aluminum-Based

Magnesium-Based

Others

Market segment by Application

Gas Storage

Adsorption Separation

Catalytic

Others

Major players covered

BASF

MOFapps

Strem Chemicals

MOF Technologies

Framergy

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 Metal-Organic Frameworks (MOF) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Metal-Organic Frameworks (MOF), with price, sales, revenue and global market share of Metal-Organic Frameworks (MOF) from 2019 to 2024.

Chapter 3, the Metal-Organic Frameworks (MOF) competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Metal-Organic Frameworks (MOF) breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

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 2017 to 2023. and Metal-Organic Frameworks (MOF) market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

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 Metal-Organic Frameworks (MOF).

Chapter 14 and 15, to describe Metal-Organic Frameworks (MOF) sales channel, distributors, customers, research findings and conclusion.

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