

# Global MO (Metal Organic) Source Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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## Abstracts

According to our (Global Info Research) latest study, the global MO (Metal Organic) Source market size was valued at USD 147.4 million in 2023 and is forecast to a readjusted size of USD 341.1 million by 2030 with a CAGR of 12.7% during review period.

Metal Organic (MO) source also known as high-purity metal organic compound, is a class of chemical compounds that contain metals and organic ligands, which confer solubility in organic solvents or volatility. MO source is a key raw material for producing semiconductor microstructure materials by use of MOVCD technology. Widely used in the production of LEDs, solar cells as well as other applications.

Global MO (Metal Organic) Source manufacturers are mostly centered in China, Korea and Japan. Due to high technical barriers, the whole MO (Metal Organic) source industry is now in oligopoly and monopolistic competition. China was the leading producer of MO (Metal Organic) source, accounting for more than 37.83% of global production. According to classification, major MO Sources are trimethylgallium, trimethylindium, triethylgallium and trimethylaluminium, these kinds of MO sources, especially trimethylgallium accounts for more than 80% of the global market share in 2018. In terms of application, MO (Metal Organic) source can be used in the production of LED, solar cell, phase change memory and semiconductor laser. LED is the main application in the market, accounting for around 90% of the total consumption in 2018.

The Global Info Research report includes an overview of the development of the MO (Metal Organic) Source industry chain, the market status of LED Industry (Trimethylgallium (TMGa), Triethylgallium (TEGa)), Solar Cell (Trimethylgallium

(TMGa), Triethylgallium (TEGa)), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of MO (Metal Organic) Source.

Regionally, the report analyzes the MO (Metal Organic) Source 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 MO (Metal Organic) Source market, with robust domestic demand, supportive policies, and a strong manufacturing base.

#### Key Features:

The report presents comprehensive understanding of the MO (Metal Organic) Source 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 MO (Metal Organic) Source 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., Trimethylgallium (TMGa), Triethylgallium (TEGa)).

**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 MO (Metal Organic) Source market.

**Regional Analysis:** The report involves examining the MO (Metal Organic) Source 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 MO (Metal Organic) Source market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to MO (Metal Organic) Source:

**Company Analysis:** Report covers individual MO (Metal Organic) Source 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 MO (Metal Organic) Source. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (LED Industry, Solar Cell).

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

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the MO (Metal Organic) Source 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

MO (Metal Organic) Source 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

Trimethylgallium (TMGa)

Triethylgallium (TEGa)

Trimethylindium (TMIn)

Trimethylaluminium (TMAI)

Other MO Sources

Market segment by Application

LED Industry

Solar Cell

Phase Change Memory

Semiconductor Laser

Others

Major players covered

Nata Opto-electronic

SAFC Hitech

AkzoNobel (Nouryon)

Jiang Xi Jia Yin Opt-Electronic

Albemarle

Chemtura

Sumitomo Chemical

Ube Industries

Lake Materials

ARGOSUN MO

Suzhou Pure Opto-Electronic

Entegris, Inc

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 MO (Metal Organic) Source product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the MO (Metal Organic) Source 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 MO (Metal Organic) Source 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 MO (Metal Organic) Source.

Chapter 14 and 15, to describe MO (Metal Organic) Source sales channel, distributors, customers, research findings and conclusion.

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