

Isosorbide Market Report and Forecast 2025-2034

Market Report | 2025-08-13 | 177 pages | EMR Inc.

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Report description:

The global isosorbide market attained a value of nearly USD 557.64 Million in 2024 . The market is further expected to grow at a CAGR of 9.00% during the forecast period of 2025-2034 to reach a value of USD 1320.14 Million by 2034 .

Global Isosorbide Market Growth

The growth of the isosorbide market is being driven by the growing environmental consciousness among consumers and technological advancements in the industry. The change in consumer preference for bioplastics, led by the increased awareness of the use of green products, is expected to further fuel the market growth over the coming years. The increasing usage of isosorbide in elastomers and polymers is also expected to propel the industry forward. However, the side effects of isosorbide derivatives might hinder market growth.

Isosorbide Market Trends

Favourable government initiatives which fuel the demand for green/bio-based chemicals to promote sustainability are a crucial trend in isosorbide market as researchers are developing green and bio-based isosorbide materials that can find applications in several end-use sectors.

Recent Developments

As per the isosorbide market analysis, the Industrial Sustainable Chemistry (ISC) group researchers at the Van 't Hoff Institute for Molecular Sciences announced the development of new bio-based and CO₂-based PISOX polymers in June 2024 which are produced from the reaction of diaryl oxalates and isosorbide.

Industry Outlook

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As per the isosorbide industry analysis, a study was funded by the British Heart Foundation for the use of isosorbide mononitrate with cilostazol in the treatment of outcomes related to lacunar stroke in 2023. Lacunar strokes affect around 35000 people every year in the UK which has led to significant research and investment in its treatment. The study and trials showed promising results for the use of the two medications in combination and can be expected to be used officially for the treatment in the next five years. This study was conducted on 363 people who have suffered lacunar strokes.

A meta-analysis was published in 2024 for the use of isosorbide mononitrate in combination with misoprostol for first and second-trimester abortions, under the pregnancy and women's healthcare management initiatives. The analysis included seven random trials and aimed to research non-surgical methods of abortion in professional settings. The result of this analysis showed that the combination medication was more effective in certain cases, but further studies are needed to draw definitive conclusions. If the conclusions are favourable, they can contribute to the isosorbide industry revenue in the coming years.

Samyang Innochem, a chemical subsidiary of Samyang Group, announced that it has achieved an ISCC Plus certification for its sustainable isosorbide material in 2023. This material is produced from plant-based biomass and can be used in the manufacture of adhesives, coatings, and plastics, among others, which can fuel the growth of the isosorbide industry. This material possesses superior durability and has low carbon emission which can make it suitable for use in electronics and automotive, among other sectors.

The Growth of the Global Market Driven by Bio-Based Products and Pharmaceutical Applications

- Bio-Based Products: Increasing demand for bio-based products as sustainable alternatives to petrochemicals drives the market for isosorbide and can increase isosorbide market value.
- Pharmaceutical Applications: Isosorbide's use in pharmaceuticals, particularly in medications for heart diseases and diuretics, supports market growth.
- Polymer Production: Isosorbide's role as a monomer in the production of biodegradable and high-performance polymers enhances its market demand.
- Environmental Awareness: Growing environmental awareness and regulatory support for green chemicals boost the adoption of isosorbide in various industries.

Challenges Impacting the Growth of the Global Market Include High Production Costs and Technical Barriers

- High Production Costs: The production of isosorbide can be costly, affecting its competitiveness compared to traditional petrochemical products and may negatively impact isosorbide demand forecast.
- Technical Barriers: Technical challenges in the large-scale production and application of isosorbide can hinder market growth.
- Raw Material Availability: Dependence on specific raw materials (such as glucose and sorbitol) can affect the supply and pricing of isosorbide.
- Market Awareness: Limited awareness and understanding of isosorbide's benefits and applications among end-users can restrict market penetration.

Opportunities in the Global Market Driven by Research and Development and Emerging Markets

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- Research and Development: Ongoing research and development efforts to improve production processes and develop new applications for isosorbide present significant isosorbide market opportunities.
- Emerging Markets: Expanding into emerging markets with growing industrialization and demand for sustainable products supports market expansion.
- Biopolymers: The rising demand for bio-polymers in packaging, automotive, and consumer goods industries offers lucrative opportunities for isosorbide.
- Sustainability Trends: Aligning with global sustainability trends and environmental regulations can enhance the market potential of isosorbide.

Setbacks Faced by the Global Isosorbide Market Share Due to Economic Fluctuations and Competitive Pressures

- Economic Fluctuations: Economic downturns can impact industrial investments and consumer spending on bio-based products, affecting isosorbide demand.
- Competitive Pressures: Intense competition from established petrochemical products and other bio-based alternatives can challenge market growth.
- Scale-Up Issues: Difficulties in scaling up production processes to meet industrial demands can hinder market expansion.

Key Players in the Global Market and Their Strategic Initiatives:

Roquette Freres

- Innovation Leadership: Leading in innovation with continuous research and development to enhance isosorbide production and applications and boost isosorbide demand growth.
- Sustainability Focus: Emphasizing sustainability by promoting bio-based and eco-friendly products in its portfolio.
- Global Outreach: Expanding global presence through strategic partnerships and market penetration in emerging regions.

Mitsubishi Chemical Corporation

- Advanced Technologies: Leveraging advanced chemical technologies to improve the quality and performance of isosorbide products and increase the sales and isosorbide market revenue.
- Strategic Alliances: Forming strategic alliances with other chemical companies and research institutions to drive innovation.
- Market Expansion: Expanding into new markets and applications, particularly in the automotive and packaging sectors.

Jinan Hongbaifeng Industry & Trade Co., Ltd.

- Cost-Effective Production: Focusing on cost-effective production methods to offer competitive pricing for isosorbide products can aid the demand of isosorbide market.

- Export Expansion: Expanding export activities to reach international markets and enhance global market share.
- Research Investments: Investing in research to explore new applications and improve the properties of isosorbide products.

Global Isosorbide Industry Segmentations

Isosorbide is a bi-cyclic chemical compound from the group of diols and heterocycles that contain oxygen and form two fused furan rings. The initiating material for isosorbide is D-sorbitol, which is derived from D-glucose's catalytic hydrogenation formed by starch hydrolysis. Isosorbide is a plant-based chemical derivative that can produce biodegradable derivatives for different functions.

The isosorbide market can be broadly categorised based on its applications into:

- Polyethylene Isosorbide Terephthalate (PEIT)
- Polycarbonate
- Polyurethane
- Polyester Polyisosorbide
- Isosorbide Diesters
- Others

It finds its end-uses in the following sectors:

- Resins and Polymers
- Additives
- Others

Market Breakup by Region

- North America
- Europe
- Asia Pacific
- Latin America
- Middle East and Africa

Competitive Landscape

The report presents a detailed analysis of the following key players in the global isosorbide industry, looking into their capacity, competitive landscape, and latest developments like capacity expansions, plant turnarounds, and mergers and acquisitions:

- Archer Daniels Midland Company (NYSE: ADM)
- Jinan Hongbaifeng Industry and Trade Co., Ltd
- Novaphene Specialities Pvt. Ltd.
- Roquette Freres
- Mitsubishi Chemical Corporation
- Others

The EMR report gives an in-depth insight into the market by providing a SWOT analysis as well as an analysis of Porter's Five

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Forces model.

Isosorbide Market Regional Analysis

As per the isosorbide market dynamics and trends, North America accounts for a significant market share due to the surge in government regulations reducing the use of VOC-based paints and coatings, which fuels the demand for bio-based materials and offers opportunities for eco-friendly isosorbides.

Isosorbide Market Report Snapshots

Isosorbide Market Size

Isosorbide Market Growth

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Isosorbide Companies

Isosorbide Market Regional Analysis

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