

Bio-Based Platform Chemicals Market Growth Analysis - Market Size, Share, Forecast Trends and Outlook Report (2025-2034)

Market Report | 2025-08-13 | 173 pages | EMR Inc.

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Report description:

The global bio-based platform chemicals market, valued at USD 20.68 Billion in 2024 , has experienced significant growth, due to its increasing use in the automotive industry for producing bioplastics and other components. The market is expected to grow at a compound annual growth rate (CAGR) of 8.10% from 2025 to 2034, potentially reaching USD 45.06 Billion by 2034 .

Global Bio-Based Platform Chemicals Market Growth

The global bio-based platform chemicals market provides several advantages. It promotes sustainability by reducing dependency on fossil fuels, lowering carbon emissions, and minimising environmental impact. The market enhances energy efficiency, cuts down waste, and aids carbon sequestration, while also diversifying supply chains and creating economic opportunities. It encourages innovation in green chemistry, ensures safer workplaces, and helps businesses comply with regulations.

Bio-based chemicals are often biodegradable and non-toxic, catering to the increasing demand for eco-friendly products. Moreover, the market enhances resource efficiency, helps prevent environmental depletion, and generates employment, especially in rural areas. Ultimately, it supports global sustainability objectives and fosters circular economies using renewable resources.

Key Trends and Recent Developments

Growing adoption of bio-based platform chemicals in the automotive industry, the shift towards renewable feedstocks, and the expansion of biopharmaceutical applications are all driving the bio-based platform chemicals market value.

April 2024

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The European Union introduced a programme to encourage the development of bio-based platform chemicals derived from renewable biomass. This initiative aims to improve sustainability and reduce carbon emissions across various industries, including pharmaceuticals and plastics.

March 2024

Cargill unveiled plans to heavily invest in bio-based chemical production facilities, focusing on creating sustainable alternatives to traditional petrochemicals. This strategy aligns with the rising demand for eco-friendly solutions, helping to advance the bio-based platform chemicals market.

February 2024

BASF announced its strategic commitment to focusing on bio-based platform chemicals to meet the growing sustainability demands across multiple industries. The company plans to enhance its product range with renewable materials that help lower carbon footprints and support the circular economy.

November 2023

DSM launched a new bio-based platform of chemicals sourced from renewable resources, targeting the automotive and packaging sectors. These products support global sustainability goals and cater to consumer demand for environmentally friendly materials, driving growth in the bio-based solutions market.

Rising Adoption in the Automotive Industry Impacting Bio-Based Platform Chemicals Market Revenue

Bio-based platform chemicals are increasingly used in the automotive industry for producing bioplastics and other components. The transition towards sustainable materials in car manufacturing is boosting demand for bio-based chemicals, contributing to the growth of this market segment. In August 2024, Ford Motor Company began integrating bio-based materials into its vehicles to reduce carbon emissions, enhancing sustainability and meeting emission standards in the automotive industry.

Shift Towards Renewable Feedstocks Driving Opportunities in the Bio-Based Platform Chemicals Market

The global bio-based platform chemicals market is witnessing a shift towards renewable feedstocks, such as plant-based materials and waste biomass. This change is driven by the need to reduce reliance on fossil fuels, promote sustainability, and cater to the rising consumer demand for eco-friendly products. In March 2024, the U.S. Department of Energy reported significant investments in renewable feedstock research, which plays a key role in producing bio-based chemicals and supporting sustainability across industries.

Rising Demand for Sustainable Packaging Boosting Bio-Based Platform Chemicals Market Growth

With increasing global sustainability efforts, the bio-based platform chemicals market is benefitting from heightened demand for eco-friendly packaging materials. Bioplastics derived from renewable sources are replacing conventional petroleum-based plastics, contributing to market growth and reducing environmental harm. In October 2024, Amcor introduced new sustainable packaging solutions made from bio-based materials, aiming to lessen environmental impact while meeting rising consumer demand for recyclable and biodegradable packaging options across various sectors.

Growth in Biopharmaceutical Applications Boosting Demand for the Bio-Based Platform Chemicals Market

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Bio-based platform chemicals are becoming more prevalent in the biopharmaceutical industry, where they are used in drug development and production. The use of bio-based materials enhances safety, sustainability, and performance, driving growth in the bio-based chemicals market within healthcare and pharmaceuticals. In January 2024, the National Institutes of Health allocated funding for research into bio-based platform chemicals in biopharmaceutical applications, encouraging innovations that promote sustainable practices in drug development and manufacturing processes.

Global Bio-Based Platform Chemicals Industry Segmentation

The EMR's report titled "Global Bio-Based Platform Chemicals Market Report and Forecast 2025-2034" offers a detailed analysis of the market based on the following segments:

Market Breakup by Product Type

- Bio Glycerol
- Bio Glutamic Acid
- Bio Itaconic Acid
- Bio-3-Hydroxypropionic Acid
- Bio Succinic Acid
- Others

Market Breakup by Region

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

Global Bio-Based Platform Chemicals Market Share

Market Analysis by Product Type

According to the bio-based platform chemicals market analysis, the market is dominated by bio glycerol, a versatile chemical derived from renewable sources, primarily as a by-product of biodiesel production. It acts as a feedstock for various chemicals, including solvents, plastics, and pharmaceuticals, promoting sustainability, and reducing fossil fuel dependency. In March 2024, the U.S. Department of Energy reported that glycerine production from biodiesel yields approximately 100 kg of glycerol per tonne of biodiesel, highlighting the by-product's role in supporting bio-based chemical market growth.

Bio glutamic acid, an amino acid used in food flavouring, pharmaceuticals, and biodegradable plastics, is produced from renewable sources, reducing environmental impact, and enhancing sustainability. In January 2024, a study revealed the successful fermentation of renewable feedstocks to produce bio glutamic acid, cutting production costs and environmental impact compared to traditional methods, according to Biotechnology for Biofuels.

The bio-based platform chemicals market is further driven by bio itaconic acid, a versatile platform chemical used in the production of polymers, resins, and coatings. Its renewable production pathways promote sustainability while offering alternatives to petroleum-based chemicals, contributing to a circular economy. In April 2024, researchers developed new microbial strains capable of producing bio itaconic acid from renewable resources, improving yield and efficiency compared to traditional methods,

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according to the Journal of Industrial Microbiology & Biotechnology.

Bio-3-hydroxypropionic acid, an essential building block for biodegradable polymers and other chemicals, is produced from renewable resources, promoting sustainability, and offering alternatives to fossil fuel-based products. In January 2024, advancements in microbial fermentation techniques for producing bio-3-hydroxypropionic acid from renewable biomass were reported, enhancing yield, and reducing costs compared to traditional synthesis methods, according to Biotechnology Advances.

Bio-succinic acid, a key platform chemical used in biodegradable plastics, solvents, and food additives, plays a significant trend in the bio-based platform chemicals market. Its renewable production pathways lower greenhouse gas emissions compared to fossil-based alternatives, promoting sustainability across industries. In March 2024, the U.S. Department of Energy recognised bio-succinic acid as a top platform chemical due to its versatility and potential to replace fossil-derived chemicals in various applications, thus boosting investment opportunities in its production technologies.

Competitive Landscape

The bio-based platform chemicals market key players are dedicated to innovation, investing in green technologies to replace traditional plastic products with bio-based alternatives. Their sustainability efforts also focus on reducing carbon footprints and promoting recycling within the chemical and materials industries. These companies serve multiple sectors, including packaging, automotive, agriculture, and construction.

Genomatica, Inc.

Headquartered in San Diego, California, Genomatica was established in 2000. The company is a leader in biotechnology, specialising in sustainable production of bio-based chemicals. Genomatica develops innovative, renewable solutions to replace petrochemicals, enhancing sustainability in industries such as plastics, chemicals, and fuels.

W.R. Grace and Co.

Founded in 1854 and based in Columbia, Maryland, it is a global leader in speciality chemicals and materials. The company focuses on providing high-performance products and services in various industries, including healthcare, packaging, and bio-based chemicals while promoting sustainable and environmentally responsible practices.

BASF SE

BASF SE, founded in 1865 and headquartered in Ludwigshafen, Germany, is the world's largest chemical producer. The company is involved in a wide range of industries, offering sustainable solutions in chemicals, materials, and bio-based products. BASF focuses on advancing sustainability and innovation in multiple sectors, including agriculture, energy, and healthcare.

Corbion N.V.

Established in 1919 and headquartered in Amsterdam, Netherlands, is a global leader in sustainable bio-based solutions. Specialising in biochemicals, the company develops renewable ingredients and technologies for sectors like food, healthcare, and bioplastics, with a strong commitment to reducing environmental impact and promoting circular economy practices.

Other key players in the bio-based platform chemicals market report are DuPont Tate and Lyle Bio Products Company, LLC, Braskem S.A, and Rennovia, Inc., among others.

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