

Bio-Based 1,3-Butanediol Market Research Report by Application (Humectants and Emollients, Intermediates, Solvents and Plasticizers, Flavor and Fragrance Agents, Others), by End-Use Industry (Personal Care and Cosmetics, Chemicals and Petrochemicals, Pharmaceuticals, Food and Beverage, Others), and by Region (North America, Europe, Asia Pacific, South America, Middle East and Africa) Forecast till 2035

Market Report | 2025-11-20 | 173 pages | Market Research Future

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Report description:

The bio-based 1,3-butadiol market is projected to reach USD 97,976.99 thousand by 2035, expanding at a CAGR of 11.7% during the forecast period. The bio-based 1,3-butanediol market is experiencing substantial growth driven by the rising demand for sustainable chemicals in the fields of polymers, cosmetics, and bioplastics.

Rising Demand for Sustainable Cosmetics

Among the factors contributing to the escalating bio-based 1,3-butanediol use is the increasing demand for cosmetics made from safe and environmentally friendly ingredients. As a result of its bio-based origin and its label of purity, it naturally aligns with sustainability-oriented beauty trends.

Segmentation Overview

Application

- Humectants and Emollients: Moisture retention and skin-conditioning uses.
- Intermediates: Key input for chemical synthesis.
- Solvents and Plasticizers: Enhance flexibility and formulation stability.
- Flavor and Fragrance Agents: Carrier for aroma compounds.

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- Others: Niche industrial and specialty applications.

End Use Industry

- Personal Care and Cosmetics: Skincare, haircare, and makeup formulations.
- Chemicals and Petrochemicals: Feedstock for specialty chemicals.
- Pharmaceuticals: Drug formulation and excipient usage.
- Food and Beverage: Flavor stabilization and processing aid.
- Others: Emerging and minor end-use sectors.

Regional Analysis

North America and Europe are gradually developing as a result of the regulatory environment (R&D cultures), and movements of the sustainable consumer demand. Asia Pacific dominates in expansion with the facility of industrial and biomass, while South America is spotlighted as an agricultural merit region.

Market Dynamics

The market of bio-based 1,3-Butanediol products is heavily influenced by industrial demand generation, increasing application avenues, and the use of production technologies that are environmentally friendly. Advancements in fermentation technology and bio-based synthesis from renewable feedstocks are reshaping traditional manufacturing.

Key Report Attributes

- Market Size 2024: USD 29,902.6 Thousand
- Market Size 2035: USD 97,976.99 Thousand
- CAGR (2025-2035): 11.7%
- Base Year: 2024
- Market Forecast Period: 2025-2035

Industry Segmentations Growth

- By Application: Humectants and Emollients - 8.8%, Intermediates - 7.2%.
- By End-Use Industry: Personal Care and Cosmetics - 8.5%, Chemicals and Petrochemicals - 7.7%.

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