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Isotridecan-1-ol Market Forecasts to 2030 – Global Analysis By Purity (?99% and

Abstracts

According to Stratistics MRC, the Global Isotridecan-1-ol Market is accounted for $5.75 billion in 2024 and is expected to reach $9.38 billion by 2030 growing at a CAGR of 8.5% during the forecast period. Isotridecan-1-ol, also known as isotridecyl alcohol, is a branched-chain fatty alcohol with the chemical formula C13H28O. This colourless, viscous liquid is an essential step in the synthesis of plasticizers, lubricants, and surfactants. Because of its superior emulsifying and solubilising qualities, isotridecan-1-ol finds extensive use in the chemical industry for products like detergents and cleaning agents.

According to the National Center for Biotechnology Information (NCBI), Isotridecan-1-ol has a molecular weight of 200.39 g/mol and is used in the synthesis of various chemical compounds.

Market Dynamics:

Driver:

Increasing use in cosmetics and personal care

Isotridecan-1-ol is a useful ingredient in personal care formulations because of its adaptable chemical characteristics. Products like creams, lotions, shampoos, and conditioners work better when they are used to stabilize emulsions, thicken them, and give them a smooth texture. Manufacturers are adding isotridecan-1-ol to formulations that emphasize skin and hair care performance in response to growing consumer preferences for high-end, organic personal care products. Additionally, its adoption is also being accelerated by the growing demand, particularly in emerging economies, for anti-aging, moisturizing, and specialty skincare products.

Restraint:

Price fluctuations for raw materials

The price volatility of raw materials, especially feedstocks based on petrochemicals, is one of the main obstacles facing the isotridecan-1-ol market. Because isotridecan-1-ol

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is frequently made from natural gas or crude oil, changes in the price of crude oil globally directly affect the cost of production. Price instability may be made worse by shifts in OPEC production policies, supply chain interruptions, and geopolitical tensions. Furthermore, it is difficult for end users to accept the product because of this unpredictability, which raises production costs for manufacturers and reduces profit margins, particularly in price-sensitive industries like detergents and cleaning agents.

Opportunity:

Growing need for sustainable and bio-based chemicals

The global trend toward environmental responsibility and sustainability offers bio-based isotridecan-1-ol a number of promising prospects. Bio-based Isotridecan-1-ol, made from renewable feedstocks, is becoming more and more popular as industries work to lower their carbon footprint and satisfy standards for environmentally friendly products. Moreover, the creation of economical production methods for bio-based isotridecan-1-ol and the increasing investment in green chemistry present manufacturers with an opportunity to seize new market demand and establish themselves as sustainability leaders.

Threat:

Sustainability issues and environmental concerns

Despite its many uses, isotridecan-1-ol production is frequently linked to environmental issues, especially when petrochemical feedstocks are utilized. The chemical industry is coming under more and more scrutiny for its overall environmental impact, wastewater production, and carbon footprint. The long-term sustainability of conventional production methods is under threat from pressure from regulatory agencies, environmental groups, and environmentally conscious consumers. Additionally, manufacturers risk losing their market share, harming their reputation, and losing customers if they don't switch to bio-based feedstocks or sustainable practices.

Covid-19 Impact:

Due to slowed manufacturing, automotive, and construction activities, the COVID-19 pandemic had a mixed effect on the isotridecan-1-ol market, causing supply chains to break down and lowering demand in industrial applications like paints, coatings, and lubricants. However, because of increased awareness of hygiene and the need for

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efficient surfactants in sanitizers and household cleaners, the pandemic also caused a spike in demand for isotridecan-1-ol in cleaning agents, disinfectants, and personal care products. Production and distribution networks were further taxed by labor shortages, travel restrictions, and logistical difficulties, and the uncertainty was increased by fluctuating raw material prices.

The Industrial Grade segment is expected to be the largest during the forecast period

The market for isotridecan-1-ol is expected to be dominated by the industrial-grade segment due to its widespread application in the production of plasticizers, lubricants, and surfactants in a variety of industries. Because of its cost-effectiveness and versatility, this grade is preferred and is a crucial part of paints, coatings, and cleaning products where durability and performance are crucial. Moreover, the consumption of industrial-grade isotridecan-1-ol has also increased due to improvements in production techniques and the growth of industrial activities in emerging economies, guaranteeing its substantial market share.

The Detergents and Cleaners segment is expected to have the highest CAGR during the forecast period

The market for isotridecan-1-ol is anticipated to grow at the highest CAGR in the Detergents and Cleaners segment due to the growing need for efficient cleaning products for both residential and commercial use. A vital component in the synthesis of surfactants, which are frequently found in detergents and cleansers because of their superior emulsifying, wetting, and foaming qualities, is isotridecan-1-ol. Furthermore, the segment has been further boosted by the growing adoption of high-end and environmentally friendly cleaning products brought about by urbanization, the growth of the middle class worldwide, and an increase in disposable income.

Region with largest share:

Due to its sophisticated chemical manufacturing infrastructure and robust industrial base, the Europe region is expected to hold the largest share of the isotridecan-1-ol market. Isotridecan-1-ol is widely used in detergents, cleaners, lubricants, and personal care products, which is consistent with the region's focus on sustainable and high-quality formulations. The demand for isotridecan-1-ol in a variety of applications has increased as a result of strict environmental regulations in Europe that have also promoted the use of eco-friendly and biodegradable chemicals. Additionally, a consistent supply and innovation in product development are guaranteed by the

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existence of important manufacturers and research facilities in nations like Germany, the Netherlands, and France.

Region with highest CAGR:

Due to the fast industrialization, urbanization, and rising demand for consumer goods in emerging economies like China, India, and Southeast Asia, the Asia-Pacific region is anticipated to have the highest CAGR in the isotridecan-1-ol market. Isotridecan-1-ol is increasingly being used in lubricants, emulsifiers, and plasticizers, due in large part to the region's growing manufacturing industries, which include construction, automotive, and textiles. Moreover, Isotridecan-1-ol is becoming a more popular ingredient in these industries as a result of the move toward more environmentally friendly and sustainable chemicals in response to environmental concerns.

Key players in the market

Some of the key players in Isotridecan-1-ol market include BASF SE, Dow Chemical Company, Clariant AG, Evonik Industries, Ataman Chemicals A.S., ExxonMobil Corporation, Shell Chemicals, Biosynth Inc, KH Neochem Co. Ltd, INEOS Group Holdings S.A., Croda International Plc and Sasol Inc.

Key Developments:

In July 2024, BASF and ENGIE signed a 7-year Biomethane Purchase Agreement (BPA). Under the BPA, ENGIE will supply BASF with 2.7 to 3.0 terawatt hours of biomethane throughout the term of the agreement. BASF uses certified biomethane at its Ludwigshafen/Germany and Antwerp/Belgium sites as a sustainable alternative to fossil raw materials in its manufacturing process.

In May 2024, Dow Chemical International Private Limited (Dow India), and Glass Wall Systems India signed an agreement for Dow to supply DOWSIL™ Facade Sealants from Dow's Decarbia™ portfolio of reduced-carbon solutions, for Glass Wall System's curtain wall system.

In February 2024, Evonik, a specialty chemical company, and the University of Mainz have signed a license agreement to commercialize randomized polyethylene glycols (rPEGs), a new class of PEGs. Evonik intends to use rPEGs for its platform of specialized lipids and commercialize the excipients under the license agreement to meet customer and market needs.

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