

Global 1-Decene Market Size Study & Forecast, by Derivative (Polyalphaolefins and Oxo Alcohols) and Regional Forecasts 2025-2035

<https://marketpublishers.com/r/GD478FDB4EB3EN.html>

Date: June 2025

Pages: 285

Price: US\$ 3,218.00 (Single User License)

ID: GD478FDB4EB3EN

Abstracts

The Global 1-Decene Market is valued at approximately USD 0.74 billion in 2024 and is projected to expand with a robust CAGR of 6.7% over the forecast period 2025–2035. 1-Decene, a linear alpha olefin, is a crucial building block employed in the synthesis of a wide range of chemical intermediates including polyalphaolefins (PAOs) and oxo alcohols. These derivatives play an integral role across high-performance lubricant formulations, plasticizers, and surfactant-based applications. Owing to its superior molecular structure and reactivity, 1-Decene has become the preferred monomer in advanced industrial applications. The increasing shift toward synthetic lubricants, especially in the automotive and industrial sectors due to their high viscosity index and oxidative stability, has directly contributed to the burgeoning demand for 1-Decene.

As global regulatory frameworks increasingly tilt in favor of sustainability and emission reduction, industries are actively pivoting toward cleaner, more efficient chemical intermediates such as 1-Decene. PAOs, synthesized from 1-Decene, are witnessing surging adoption in engine oils, transmission fluids, and industrial greases owing to their extended drain intervals and thermal stability. Similarly, oxo alcohols derived from 1-Decene are gaining ground in plasticizer production and surfactant manufacturing, driven by rising urbanization and consumer goods proliferation. However, the industry grapples with challenges including volatility in feedstock prices and supply chain constraints stemming from geopolitical tensions and environmental regulations on petrochemical operations.

From a geographical standpoint, North America commanded the dominant market share in 2024, backed by the presence of major synthetic lubricant manufacturers, expansive automotive production capacities, and strategic investments in downstream

petrochemical facilities. Europe, bolstered by stringent environmental norms and its matured automotive aftermarket, also contributes significantly to global revenues. Meanwhile, Asia Pacific is anticipated to emerge as the fastest-growing region during the forecast window. Rapid industrialization, booming automotive markets in countries such as China and India, and escalating demand for high-efficiency lubricants and plasticizers are catalyzing regional demand. Additionally, increasing foreign investments in regional petrochemical infrastructure and expansions of local production capacities are setting the stage for exponential growth across emerging Asian economies.

Major market player included in this report are:

Chevron Phillips Chemical Company

Sasol Limited

INEOS Group

Shell Chemicals

ExxonMobil Corporation

SABIC

Qatar Chemical Company Ltd.

Idemitsu Kosan Co., Ltd.

PJSC Nizhnekamskneftekhim

The Dow Chemical Company

Linde plc

TPC Group

Mitsubishi Chemical Corporation

Evonik Industries AG

LG Chem

Global 1-Decene Market Report Scope:

Historical Data – 2023, 2024

Base Year for Estimation – 2024

Forecast period - 2025-2035

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values for the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within the countries involved in the study. The report also provides detailed information about crucial aspects, such as driving factors and challenges, which will define the future growth of the market. Additionally, it incorporates potential opportunities in micro-markets for stakeholders to invest, along with a detailed analysis of the competitive landscape and product offerings of key players. The detailed segments and sub-segments of the market are explained below:

By Derivative:

Polyalphaolefins (PAOs)

Synthetic Lubricants

Others

Oxo Alcohols

Plasticizer Alcohols

Detergent Alcohols

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

Rest of Europe

Asia Pacific

China

India

Japan

Australia

South Korea

Rest of Asia Pacific

Latin America

Brazil

Mexico

Middle East & Africa

UAE

Saudi Arabia

South Africa

Rest of Middle East & Africa

Key Takeaways:

Market Estimates & Forecast for 10 years from 2025 to 2035.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market

approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

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