

Global Ene-reductase Market Growth 2026-2032

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Abstracts

The global Ene-reductase market size is predicted to grow from US\$ 105 million in 2025 to US\$ 204 million in 2032; it is expected to grow at a CAGR of 10.0% from 2026 to 2032.

In 2025, global ene-reductase(ERED) sales volume was approximately 25 tons, with an average global market price of about USD 4,300/kg. The gross margin of major manufacturers in the industry was approximately 45%?65%.

Ene-reductase is a class of oxidoreductase capable of catalyzing the reduction of activated carbon-carbon double bonds. It is mainly used to selectively reduce the C=C double bonds in substrates such as enone, enal, enoic acid, enoate, and nitroalkene into saturated structures. Compared with traditional metal-catalyzed hydrogenation or chemical reduction processes, ene-reductase operates under milder reaction conditions, typically in aqueous systems or mild organic/aqueous systems, and offers high regioselectivity, chemoselectivity, and enantioselectivity, making it particularly suitable for chiral center construction and the synthesis of high-value intermediates.

The upstream of ene-reductase mainly includes microbial strain resources, enzyme gene sequences, expression vectors, fermentation media, cofactor recycling systems, immobilization carriers, and enzyme formulation excipients. The midstream involves enzyme screening, directed evolution, fermentation expression, purification, immobilization treatment, and process scale-up. Downstream applications are mainly concentrated in pharmaceutical biocatalysis, agrochemical intermediate, flavor and fragrance, and specialty fine chemical, where ene-reductase is used for selective reduction of unsaturated substrates, chiral center construction, and green synthesis process development.

United States market for Ene-reductase is estimated to increase from US\$ million in

2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Ene-reductase is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Ene-reductase is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Ene-reductase players cover Johnson Matthey, Codexis, Almac Group, Prozomix, Cambrex, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "Ene-reductase Industry Forecast" looks at past sales and reviews total world Ene-reductase sales in 2025, providing a comprehensive analysis by region and market sector of projected Ene-reductase sales for 2026 through 2032. With Ene-reductase sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Ene-reductase industry.

This Insight Report provides a comprehensive analysis of the global Ene-reductase landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Ene-reductase portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Ene-reductase market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Ene-reductase and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Ene-reductase.

This report presents a comprehensive overview, market shares, and growth opportunities of Ene-reductase market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Enone/Enal Type

Enoic Acid/Enoate Type

Nitroalkene Type

Segmentation by Catalytic Selectivity:

Non-enantioselective Type

R-selective Type

S-selective Type

Segmentation by Form:

Free Enzyme Preparation

Immobilized Enzyme Preparation

Whole-cell Catalyst

Segmentation by Application:

Pharmaceutical Biocatalysis

Agrochemical Intermediate

Flavor and Fragrance

Specialty Fine Chemical

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Johnson Matthey

Codexis

Almac Group

Prozomix

Cambrex

Kcat Enzymatic

SyncoZymes

Asymchem

WuXi STA

Tianjin Bio-Pharmacn Biotechnology

Key Questions Addressed in this Report

What is the 10-year outlook for the global Ene-reductase market?

What factors are driving Ene-reductase market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Ene-reductase market opportunities vary by end market size?

How does Ene-reductase break out by Type, by Application?

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