

Global Ene-reductase Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Ene-reductase market size is expected to reach \$ 208 million by 2032, rising at a market growth of 9.4% CAGR during the forecast period (2026-2032).

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.

This report studies the global Ene-reductase production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Ene-reductase and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Ene-reductase that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Ene-reductase total production and demand, 2021-2032, (Tons)

Global Ene-reductase total production value, 2021-2032, (USD Million)

Global Ene-reductase production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Ene-reductase consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Ene-reductase domestic production, consumption, key domestic manufacturers and share

Global Ene-reductase production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Ene-reductase production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Ene-reductase production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Ene-reductase market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Johnson Matthey, Codexis, Almac Group, Prozomix, Cambrex, Kcat Enzymatic, SyncoZymes, Asymchem, WuXi STA, Tianjin Bio-Pharmacn Biotechnology, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Ene-reductase market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/kg) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Ene-reductase Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Ene-reductase Market, Segmentation by Type:

Enone/Enal Type

Enoic Acid/Enoate Type

Nitroalkene Type

Global Ene-reductase Market, Segmentation by Catalytic Selectivity:

Non-enantioselective Type

R-selective Type

S-selective Type

Global Ene-reductase Market, Segmentation by Form:

Free Enzyme Preparation

Immobilized Enzyme Preparation

Whole-cell Catalyst

Global Ene-reductase Market, Segmentation by Application:

Pharmaceutical Biocatalysis

Agrochemical Intermediate

Flavor and Fragrance

Specialty Fine Chemical

Other

Companies Profiled:

Johnson Matthey

Codexis

Almac Group

Prozomix

Cambrex

Kcat Enzymatic

SyncoZymes

Asymchem

WuXi STA

Tianjin Bio-Pharmacn Biotechnology

Key Questions Answered:

1. How big is the global Ene-reductase market?
2. What is the demand of the global Ene-reductase market?
3. What is the year over year growth of the global Ene-reductase market?
4. What is the production and production value of the global Ene-reductase market?
5. Who are the key producers in the global Ene-reductase market?
6. What are the growth factors driving the market demand?

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