

Global Ene-reductase Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Ene-reductase market size was valued at US\$ 111 million in 2025 and is forecast to a readjusted size of US\$ 208 million by 2032 with a CAGR of 9.4% during review period.

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 is a detailed and comprehensive analysis for global Ene-reductase market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Ene-reductase market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2021-2032

Global Ene-reductase market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2021-2032

Global Ene-reductase market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2021-2032

Global Ene-reductase market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/kg), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Ene-reductase

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Ene-reductase market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

Ene-reductase market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Enone/Enal Type

Enoic Acid/Enoate Type

Nitroalkene Type

Market segment by Catalytic Selectivity

Non-enantioselective Type

R-selective Type

S-selective Type

Market segment by Form

Free Enzyme Preparation

Immobilized Enzyme Preparation

Whole-cell Catalyst

Market segment by Application

Pharmaceutical Biocatalysis

Agrochemical Intermediate

Flavor and Fragrance

Specialty Fine Chemical

Other

Major players covered

Johnson Matthey

Codexis

Almac Group

Prozomix

Cambrex

Kcat Enzymatic

SyncoZymes

Asymchem

WuXi STA

Tianjin Bio-Pharmacn Biotechnology

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Ene-reductase product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Ene-reductase, with price, sales quantity, revenue, and global market share of Ene-reductase from 2021 to 2026.

Chapter 3, the Ene-reductase competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Ene-reductase breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Ene-reductase market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Ene-

reductase.

Chapter 14 and 15, to describe Ene-reductase sales channel, distributors, customers, research findings and conclusion.

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