

Global Imine Reductase Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G0287A43C1D2EN.html>

Date: July 2026

Pages: 105

Price: US\$ 3,480.00 (Single User License)

ID: G0287A43C1D2EN

Abstracts

According to our (Global Info Research) latest study, the global Imine Reductase market size was valued at US\$ 162 million in 2025 and is forecast to a readjusted size of US\$ 304 million by 2032 with a CAGR of 9.4% during review period.

In 2025, global imine reductase(IRED) sales volume was approximately 35 tons, with an average global market price of about USD 4,500/kg. The gross margin of major manufacturers in the industry was approximately 45%?65%.

Imine reductase is a class of oxidoreductase capable of catalyzing the reduction of C=N bonds in imines, iminium ions, or in situ generated imine intermediates to form amine compounds. It is commonly used in the biocatalytic synthesis of chiral amines and amine-containing intermediates. Compared with traditional metal-catalyzed hydrogenation, chemical reduction, or reductive amination processes, imine reductase operates under mild reaction conditions and offers high chemoselectivity and enantioselectivity, helping to reduce metal residues, side reactions, and resolution steps. It is particularly suitable for the green synthesis of pharmaceutical intermediates, chiral amine building blocks, and high-value fine chemicals.

The upstream of imine 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 intermediates, and specialty fine chemicals. In pharmaceutical and CDMO applications, imine reductase can be used

for the preparation of chiral amines, heterocyclic amines, and API intermediates. In agrochemical and specialty fine chemical applications, it can be used for the synthesis of amine-containing structural fragments, functional amine compounds, and customized high-value intermediates.

This report is a detailed and comprehensive analysis for global Imine 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 Imine Reductase market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2021-2032

Global Imine 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 Imine 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 Imine 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 Imine 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 Imine 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, SyncoZymes, WuXi STA, Asymchem, Tianjin Bio-Pharmaceutical Biotechnology, Nanjing Predictive Biotechnology, etc.

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

Market Segmentation

Imine 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

- Imine Reduction Type

- Reductive Amination Type

- Cyclic Imine Reduction 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

Specialty Fine Chemical

Other

Major players covered

Johnson Matthey

Codexis

Almac Group

Prozomix

SyncoZymes

WuXi STA

Asymchem

Tianjin Bio-Pharmcn Biotechnology

Nanjing Predictive 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 Imine Reductase product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Imine 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 Imine 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 Imine Reductase.

Chapter 14 and 15, to describe Imine Reductase sales channel, distributors, customers, research findings and conclusion.

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