

Global Imine Reductase Market Growth 2026-2032

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Abstracts

The global Imine Reductase market size is predicted to grow from US\$ 154 million in 2025 to US\$ 298 million in 2032; it is expected to grow at a CAGR of 10.0% from 2026 to 2032.

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.

United States market for Imine 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 Imine 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 Imine 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 Imine Reductase players cover Johnson Matthey, Codexis, Almac Group, Prozomix, SyncoZymes, 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 ?Imine Reductase Industry Forecast? looks at past sales and reviews total world Imine Reductase sales in 2025, providing a comprehensive analysis by region and market sector of projected Imine Reductase sales for 2026 through 2032. With Imine Reductase sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Imine Reductase industry.

This Insight Report provides a comprehensive analysis of the global Imine 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 Imine Reductase portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Imine Reductase market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Imine 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 Imine Reductase.

This report presents a comprehensive overview, market shares, and growth opportunities of Imine Reductase market by product type, application, key

manufacturers and key regions and countries.

Segmentation by Type:

Imine Reduction Type

Reductive Amination Type

Cyclic Imine Reduction 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

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

SyncoZymes

WuXi STA

Asymchem

Tianjin Bio-Pharmacn Biotechnology

Nanjing Predictc Biotechnology

Key Questions Addressed in this Report

What is the 10-year outlook for the global Imine Reductase market?

What factors are driving Imine Reductase market growth, globally and by region?

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

How do Imine Reductase market opportunities vary by end market size?

How does Imine Reductase break out by Type, by Application?

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