

Global Imine Reductase Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Imine Reductase market size is expected to reach \$ 304 million by 2032, rising at a market growth of 9.4% CAGR during the forecast period (2026-2032).

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.

This report studies the global Imine Reductase production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Imine 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 Imine Reductase that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Imine Reductase total production and demand, 2021-2032, (Tons)

Global Imine Reductase total production value, 2021-2032, (USD Million)

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

Global Imine Reductase consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Imine Reductase domestic production, consumption, key domestic manufacturers and share

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

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

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

This report profiles key players in the global Imine 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, SyncoZymes, WuXi STA, Asymchem, Tianjin Bio-Pharmacn Biotechnology, Nanjing Predictive 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 Imine 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 Imine Reductase Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Imine Reductase Market, Segmentation by Type:

Imine Reduction Type

Reductive Amination Type

Cyclic Imine Reduction Type

Global Imine Reductase Market, Segmentation by Catalytic Selectivity:

Non-enantioselective Type

R-selective Type

S-selective Type

Global Imine Reductase Market, Segmentation by Form:

Free Enzyme Preparation

Immobilized Enzyme Preparation

Whole-cell Catalyst

Global Imine Reductase Market, Segmentation by Application:

Pharmaceutical Biocatalysis

Agrochemical Intermediate

Specialty Fine Chemical

Other

Companies Profiled:

Johnson Matthey

Codexis

Almac Group

Prozomix

SyncoZymes

WuXi STA

Asymchem

Tianjin Bio-Pharmachn Biotechnology

Nanjing Predicta Biotechnology

Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

- 1.1 Imine Reductase Introduction
- 1.2 World Imine Reductase Supply & Forecast
 - 1.2.1 World Imine Reductase Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Imine Reductase Production (2021-2032)
 - 1.2.3 World Imine Reductase Pricing Trends (2021-2032)
- 1.3 World Imine Reductase Production by Region (Based on Production Site)
 - 1.3.1 World Imine Reductase Production Value by Region (2021-2032)
 - 1.3.2 World Imine Reductase Production by Region (2021-2032)
 - 1.3.3 World Imine Reductase Average Price by Region (2021-2032)
 - 1.3.4 North America Imine Reductase Production (2021-2032)
 - 1.3.5 Europe Imine Reductase Production (2021-2032)
 - 1.3.6 China Imine Reductase Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Imine Reductase Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Imine Reductase Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Imine Reductase Demand (2021-2032)
- 2.2 World Imine Reductase Consumption by Region
 - 2.2.1 World Imine Reductase Consumption by Region (2021-2026)
 - 2.2.2 World Imine Reductase Consumption Forecast by Region (2027-2032)
- 2.3 United States Imine Reductase Consumption (2021-2032)
- 2.4 China Imine Reductase Consumption (2021-2032)
- 2.5 Europe Imine Reductase Consumption (2021-2032)
- 2.6 Japan Imine Reductase Consumption (2021-2032)
- 2.7 South Korea Imine Reductase Consumption (2021-2032)
- 2.8 ASEAN Imine Reductase Consumption (2021-2032)
- 2.9 India Imine Reductase Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Imine Reductase Production Value by Manufacturer (2021-2026)
- 3.2 World Imine Reductase Production by Manufacturer (2021-2026)

3.3 World Imine Reductase Average Price by Manufacturer (2021-2026)

3.4 Imine Reductase Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Imine Reductase Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Imine Reductase in 2025

3.5.3 Global Concentration Ratios (CR8) for Imine Reductase in 2025

3.6 Imine Reductase Market: Overall Company Footprint Analysis

3.6.1 Imine Reductase Market: Region Footprint

3.6.2 Imine Reductase Market: Company Product Type Footprint

3.6.3 Imine Reductase Market: Company Product Application Footprint

3.7 Competitive Environment

3.7.1 Historical Structure of the Industry

3.7.2 Barriers of Market Entry

3.7.3 Factors of Competition

3.8 New Entrant and Capacity Expansion Plans

3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

4.1 United States VS China: Imine Reductase Production Value Comparison

4.1.1 United States VS China: Imine Reductase Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Imine Reductase Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Imine Reductase Production Comparison

4.2.1 United States VS China: Imine Reductase Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Imine Reductase Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Imine Reductase Consumption Comparison

4.3.1 United States VS China: Imine Reductase Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Imine Reductase Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Imine Reductase Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Imine Reductase Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Imine Reductase Production Value (2021-2026)

- 4.4.3 United States Based Manufacturers Imine Reductase Production (2021-2026)
- 4.5 China Based Imine Reductase Manufacturers and Market Share
 - 4.5.1 China Based Imine Reductase Manufacturers, Headquarters and Production Site (Province, Country)
 - 4.5.2 China Based Manufacturers Imine Reductase Production Value (2021-2026)
 - 4.5.3 China Based Manufacturers Imine Reductase Production (2021-2026)
- 4.6 Rest of World Based Imine Reductase Manufacturers and Market Share, 2021-2026
 - 4.6.1 Rest of World Based Imine Reductase Manufacturers, Headquarters and Production Site (State, Country)
 - 4.6.2 Rest of World Based Manufacturers Imine Reductase Production Value (2021-2026)
 - 4.6.3 Rest of World Based Manufacturers Imine Reductase Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

- 5.1 World Imine Reductase Market Size Overview by Type: 2021 VS 2025 VS 2032
- 5.2 Segment Introduction by Type
 - 5.2.1 Imine Reduction Type
 - 5.2.2 Reductive Amination Type
 - 5.2.3 Cyclic Imine Reduction Type
- 5.3 Market Segment by Type
 - 5.3.1 World Imine Reductase Production by Type (2021-2032)
 - 5.3.2 World Imine Reductase Production Value by Type (2021-2032)
 - 5.3.3 World Imine Reductase Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY CATALYTIC SELECTIVITY

- 6.1 World Imine Reductase Market Size Overview by Catalytic Selectivity: 2021 VS 2025 VS 2032
- 6.2 Segment Introduction by Catalytic Selectivity
 - 6.2.1 Non-enantioselective Type
 - 6.2.2 R-selective Type
 - 6.2.3 S-selective Type
- 6.3 Market Segment by Catalytic Selectivity
 - 6.3.1 World Imine Reductase Production by Catalytic Selectivity (2021-2032)
 - 6.3.2 World Imine Reductase Production Value by Catalytic Selectivity (2021-2032)
 - 6.3.3 World Imine Reductase Average Price by Catalytic Selectivity (2021-2032)

7 MARKET ANALYSIS BY FORM

7.1 World Imine Reductase Market Size Overview by Form: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Form

7.2.1 Free Enzyme Preparation

7.2.2 Immobilized Enzyme Preparation

7.2.3 Whole-cell Catalyst

7.3 Market Segment by Form

7.3.1 World Imine Reductase Production by Form (2021-2032)

7.3.2 World Imine Reductase Production Value by Form (2021-2032)

7.3.3 World Imine Reductase Average Price by Form (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Imine Reductase Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Pharmaceutical Biocatalysis

8.2.2 Agrochemical Intermediate

8.2.3 Specialty Fine Chemical

8.2.4 Other

8.3 Market Segment by Application

8.3.1 World Imine Reductase Production by Application (2021-2032)

8.3.2 World Imine Reductase Production Value by Application (2021-2032)

8.3.3 World Imine Reductase Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Johnson Matthey

9.1.1 Johnson Matthey Details

9.1.2 Johnson Matthey Major Business

9.1.3 Johnson Matthey Imine Reductase Product and Services

9.1.4 Johnson Matthey Imine Reductase Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Johnson Matthey Recent Developments/Updates

9.1.6 Johnson Matthey Competitive Strengths & Weaknesses

9.2 Codexis

9.2.1 Codexis Details

9.2.2 Codexis Major Business

9.2.3 Codexis Imine Reductase Product and Services

9.2.4 Codexis Imine Reductase Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Codexis Recent Developments/Updates

9.2.6 Codexis Competitive Strengths & Weaknesses

9.3 Almac Group

9.3.1 Almac Group Details

9.3.2 Almac Group Major Business

9.3.3 Almac Group Imine Reductase Product and Services

9.3.4 Almac Group Imine Reductase Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Almac Group Recent Developments/Updates

9.3.6 Almac Group Competitive Strengths & Weaknesses

9.4 Prozomix

9.4.1 Prozomix Details

9.4.2 Prozomix Major Business

9.4.3 Prozomix Imine Reductase Product and Services

9.4.4 Prozomix Imine Reductase Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Prozomix Recent Developments/Updates

9.4.6 Prozomix Competitive Strengths & Weaknesses

9.5 SyncoZymes

9.5.1 SyncoZymes Details

9.5.2 SyncoZymes Major Business

9.5.3 SyncoZymes Imine Reductase Product and Services

9.5.4 SyncoZymes Imine Reductase Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 SyncoZymes Recent Developments/Updates

9.5.6 SyncoZymes Competitive Strengths & Weaknesses

9.6 WuXi STA

9.6.1 WuXi STA Details

9.6.2 WuXi STA Major Business

9.6.3 WuXi STA Imine Reductase Product and Services

9.6.4 WuXi STA Imine Reductase Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 WuXi STA Recent Developments/Updates

9.6.6 WuXi STA Competitive Strengths & Weaknesses

9.7 Asymchem

9.7.1 Asymchem Details

9.7.2 Asymchem Major Business

- 9.7.3 Asymchem Imine Reductase Product and Services
- 9.7.4 Asymchem Imine Reductase Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.7.5 Asymchem Recent Developments/Updates
- 9.7.6 Asymchem Competitive Strengths & Weaknesses
- 9.8 Tianjin Bio-Pharmacn Biotechnology
 - 9.8.1 Tianjin Bio-Pharmacn Biotechnology Details
 - 9.8.2 Tianjin Bio-Pharmacn Biotechnology Major Business
 - 9.8.3 Tianjin Bio-Pharmacn Biotechnology Imine Reductase Product and Services
 - 9.8.4 Tianjin Bio-Pharmacn Biotechnology Imine Reductase Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 Tianjin Bio-Pharmacn Biotechnology Recent Developments/Updates
 - 9.8.6 Tianjin Bio-Pharmacn Biotechnology Competitive Strengths & Weaknesses
- 9.9 Nanjing Predictce Biotechnology
 - 9.9.1 Nanjing Predictce Biotechnology Details
 - 9.9.2 Nanjing Predictce Biotechnology Major Business
 - 9.9.3 Nanjing Predictce Biotechnology Imine Reductase Product and Services
 - 9.9.4 Nanjing Predictce Biotechnology Imine Reductase Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 Nanjing Predictce Biotechnology Recent Developments/Updates
 - 9.9.6 Nanjing Predictce Biotechnology Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 Imine Reductase Industry Chain
- 10.2 Imine Reductase Upstream Analysis
 - 10.2.1 Imine Reductase Core Raw Materials
 - 10.2.2 Main Manufacturers of Imine Reductase Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Imine Reductase Production Mode
- 10.6 Imine Reductase Procurement Model
- 10.7 Imine Reductase Industry Sales Model and Sales Channels
 - 10.7.1 Imine Reductase Sales Model
 - 10.7.2 Imine Reductase Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

- Table 1. World Imine Reductase Production Value by Region (2021, 2025 and 2032) & (USD Million)
- Table 2. World Imine Reductase Production Value by Region (2021-2026) & (USD Million)
- Table 3. World Imine Reductase Production Value by Region (2027-2032) & (USD Million)
- Table 4. World Imine Reductase Production Value Market Share by Region (2021-2026)
- Table 5. World Imine Reductase Production Value Market Share by Region (2027-2032)
- Table 6. World Imine Reductase Production by Region (2021-2026) & (Tons)
- Table 7. World Imine Reductase Production by Region (2027-2032) & (Tons)
- Table 8. World Imine Reductase Production Market Share by Region (2021-2026)
- Table 9. World Imine Reductase Production Market Share by Region (2027-2032)
- Table 10. World Imine Reductase Average Price by Region (2021-2026) & (US\$/kg)
- Table 11. World Imine Reductase Average Price by Region (2027-2032) & (US\$/kg)
- Table 12. Imine Reductase Major Market Trends
- Table 13. World Imine Reductase Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Tons)
- Table 14. World Imine Reductase Consumption by Region (2021-2026) & (Tons)
- Table 15. World Imine Reductase Consumption Forecast by Region (2027-2032) & (Tons)
- Table 16. World Imine Reductase Production Value by Manufacturer (2021-2026) & (USD Million)
- Table 17. Production Value Market Share of Key Imine Reductase Producers in 2025
- Table 18. World Imine Reductase Production by Manufacturer (2021-2026) & (Tons)
- Table 19. Production Market Share of Key Imine Reductase Producers in 2025
- Table 20. World Imine Reductase Average Price by Manufacturer (2021-2026) & (US\$/kg)
- Table 21. Global Imine Reductase Company Evaluation Quadrant
- Table 22. World Imine Reductase Industry Rank of Major Manufacturers, Based on Production Value in 2025
- Table 23. Head Office and Imine Reductase Production Site of Key Manufacturer
- Table 24. Imine Reductase Market: Company Product Type Footprint
- Table 25. Imine Reductase Market: Company Product Application Footprint
- Table 26. Imine Reductase Competitive Factors
- Table 27. Imine Reductase New Entrant and Capacity Expansion Plans

Table 28. Imine Reductase Mergers & Acquisitions Activity
Table 29. United States VS China Imine Reductase Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)
Table 30. United States VS China Imine Reductase Production Comparison, (2021 & 2025 & 2032) & (Tons)
Table 31. United States VS China Imine Reductase Consumption Comparison, (2021 & 2025 & 2032) & (Tons)
Table 32. United States Based Imine Reductase Manufacturers, Headquarters and Production Site (States, Country)
Table 33. United States Based Manufacturers Imine Reductase Production Value, (2021-2026) & (USD Million)
Table 34. United States Based Manufacturers Imine Reductase Production Value Market Share (2021-2026)
Table 35. United States Based Manufacturers Imine Reductase Production (2021-2026) & (Tons)
Table 36. United States Based Manufacturers Imine Reductase Production Market Share (2021-2026)
Table 37. China Based Imine Reductase Manufacturers, Headquarters and Production Site (Province, Country)
Table 38. China Based Manufacturers Imine Reductase Production Value, (2021-2026) & (USD Million)
Table 39. China Based Manufacturers Imine Reductase Production Value Market Share (2021-2026)
Table 40. China Based Manufacturers Imine Reductase Production, (2021-2026) & (Tons)
Table 41. China Based Manufacturers Imine Reductase Production Market Share (2021-2026)
Table 42. Rest of World Based Imine Reductase Manufacturers, Headquarters and Production Site (State, Country)
Table 43. Rest of World Based Manufacturers Imine Reductase Production Value, (2021-2026) & (USD Million)
Table 44. Rest of World Based Manufacturers Imine Reductase Production Value Market Share (2021-2026)
Table 45. Rest of World Based Manufacturers Imine Reductase Production, (2021-2026) & (Tons)
Table 46. Rest of World Based Manufacturers Imine Reductase Production Market Share (2021-2026)
Table 47. World Imine Reductase Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Imine Reductase Production by Type (2021-2026) & (Tons)
Table 49. World Imine Reductase Production by Type (2027-2032) & (Tons)
Table 50. World Imine Reductase Production Value by Type (2021-2026) & (USD Million)
Table 51. World Imine Reductase Production Value by Type (2027-2032) & (USD Million)
Table 52. World Imine Reductase Average Price by Type (2021-2026) & (US\$/kg)
Table 53. World Imine Reductase Average Price by Type (2027-2032) & (US\$/kg)
Table 54. World Imine Reductase Production Value by Catalytic Selectivity, (USD Million), 2021 & 2025 & 2032
Table 55. World Imine Reductase Production by Catalytic Selectivity (2021-2026) & (Tons)
Table 56. World Imine Reductase Production by Catalytic Selectivity (2027-2032) & (Tons)
Table 57. World Imine Reductase Production Value by Catalytic Selectivity (2021-2026) & (USD Million)
Table 58. World Imine Reductase Production Value by Catalytic Selectivity (2027-2032) & (USD Million)
Table 59. World Imine Reductase Average Price by Catalytic Selectivity (2021-2026) & (US\$/kg)
Table 60. World Imine Reductase Average Price by Catalytic Selectivity (2027-2032) & (US\$/kg)
Table 61. World Imine Reductase Production Value by Form, (USD Million), 2021 & 2025 & 2032
Table 62. World Imine Reductase Production by Form (2021-2026) & (Tons)
Table 63. World Imine Reductase Production by Form (2027-2032) & (Tons)
Table 64. World Imine Reductase Production Value by Form (2021-2026) & (USD Million)
Table 65. World Imine Reductase Production Value by Form (2027-2032) & (USD Million)
Table 66. World Imine Reductase Average Price by Form (2021-2026) & (US\$/kg)
Table 67. World Imine Reductase Average Price by Form (2027-2032) & (US\$/kg)
Table 68. World Imine Reductase Production Value by Application, (USD Million), 2021 & 2025 & 2032
Table 69. World Imine Reductase Production by Application (2021-2026) & (Tons)
Table 70. World Imine Reductase Production by Application (2027-2032) & (Tons)
Table 71. World Imine Reductase Production Value by Application (2021-2026) & (USD Million)
Table 72. World Imine Reductase Production Value by Application (2027-2032) & (USD Million)

Million)

Table 73. World Imine Reductase Average Price by Application (2021-2026) & (US\$/kg)

Table 74. World Imine Reductase Average Price by Application (2027-2032) & (US\$/kg)

Table 75. Johnson Matthey Basic Information, Manufacturing Base and Competitors

Table 76. Johnson Matthey Major Business

Table 77. Johnson Matthey Imine Reductase Product and Services

Table 78. Johnson Matthey Imine Reductase Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Johnson Matthey Recent Developments/Updates

Table 80. Johnson Matthey Competitive Strengths & Weaknesses

Table 81. Codexis Basic Information, Manufacturing Base and Competitors

Table 82. Codexis Major Business

Table 83. Codexis Imine Reductase Product and Services

Table 84. Codexis Imine Reductase Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Codexis Recent Developments/Updates

Table 86. Codexis Competitive Strengths & Weaknesses

Table 87. Almac Group Basic Information, Manufacturing Base and Competitors

Table 88. Almac Group Major Business

Table 89. Almac Group Imine Reductase Product and Services

Table 90. Almac Group Imine Reductase Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Almac Group Recent Developments/Updates

Table 92. Almac Group Competitive Strengths & Weaknesses

Table 93. Prozomix Basic Information, Manufacturing Base and Competitors

Table 94. Prozomix Major Business

Table 95. Prozomix Imine Reductase Product and Services

Table 96. Prozomix Imine Reductase Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Prozomix Recent Developments/Updates

Table 98. Prozomix Competitive Strengths & Weaknesses

Table 99. SyncoZymes Basic Information, Manufacturing Base and Competitors

Table 100. SyncoZymes Major Business

Table 101. SyncoZymes Imine Reductase Product and Services

Table 102. SyncoZymes Imine Reductase Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. SyncoZymes Recent Developments/Updates

Table 104. SyncoZymes Competitive Strengths & Weaknesses

Table 105. WuXi STA Basic Information, Manufacturing Base and Competitors

Table 106. WuXi STA Major Business

Table 107. WuXi STA Imine Reductase Product and Services

Table 108. WuXi STA Imine Reductase Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. WuXi STA Recent Developments/Updates

Table 110. WuXi STA Competitive Strengths & Weaknesses

Table 111. Asymchem Basic Information, Manufacturing Base and Competitors

Table 112. Asymchem Major Business

Table 113. Asymchem Imine Reductase Product and Services

Table 114. Asymchem Imine Reductase Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Asymchem Recent Developments/Updates

Table 116. Asymchem Competitive Strengths & Weaknesses

Table 117. Tianjin Bio-Pharmacn Biotechnology Basic Information, Manufacturing Base and Competitors

Table 118. Tianjin Bio-Pharmacn Biotechnology Major Business

Table 119. Tianjin Bio-Pharmacn Biotechnology Imine Reductase Product and Services

Table 120. Tianjin Bio-Pharmacn Biotechnology Imine Reductase Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Tianjin Bio-Pharmacn Biotechnology Recent Developments/Updates

Table 122. Tianjin Bio-Pharmacn Biotechnology Competitive Strengths & Weaknesses

Table 123. Nanjing Predictc Biotechnology Basic Information, Manufacturing Base and Competitors

Table 124. Nanjing Predictc Biotechnology Major Business

Table 125. Nanjing Predictc Biotechnology Imine Reductase Product and Services

Table 126. Nanjing Predictc Biotechnology Imine Reductase Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Nanjing Predictc Biotechnology Recent Developments/Updates

Table 128. Nanjing Predictc Biotechnology Competitive Strengths & Weaknesses

Table 129. Global Key Players of Imine Reductase Upstream (Raw Materials)

Table 130. Global Imine Reductase Typical Customers

Table 131. Imine Reductase Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Imine Reductase Picture

Figure 2. World Imine Reductase Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Imine Reductase Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Imine Reductase Production (2021-2032) & (Tons)

Figure 5. World Imine Reductase Average Price (2021-2032) & (US\$/kg)

Figure 6. World Imine Reductase Production Value Market Share by Region (2021-2032)

Figure 7. World Imine Reductase Production Market Share by Region (2021-2032)

Figure 8. North America Imine Reductase Production (2021-2032) & (Tons)

Figure 9. Europe Imine Reductase Production (2021-2032) & (Tons)

Figure 10. China Imine Reductase Production (2021-2032) & (Tons)

Figure 11. Imine Reductase Market Drivers

Figure 12. Factors Affecting Demand

Figure 13. World Imine Reductase Consumption (2021-2032) & (Tons)

Figure 14. World Imine Reductase Consumption Market Share by Region (2021-2032)

Figure 15. United States Imine Reductase Consumption (2021-2032) & (Tons)

Figure 16. China Imine Reductase Consumption (2021-2032) & (Tons)

Figure 17. Europe Imine Reductase Consumption (2021-2032) & (Tons)

Figure 18. Japan Imine Reductase Consumption (2021-2032) & (Tons)

Figure 19. South Korea Imine Reductase Consumption (2021-2032) & (Tons)

Figure 20. ASEAN Imine Reductase Consumption (2021-2032) & (Tons)

Figure 21. India Imine Reductase Consumption (2021-2032) & (Tons)

Figure 22. Producer Shipments of Imine Reductase by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 23. Global Four-firm Concentration Ratios (CR4) for Imine Reductase Markets in 2025

Figure 24. Global Four-firm Concentration Ratios (CR8) for Imine Reductase Markets in 2025

Figure 25. United States VS China: Imine Reductase Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 26. United States VS China: Imine Reductase Production Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Imine Reductase Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States Based Manufacturers Imine Reductase Production Market Share 2025

Figure 29. China Based Manufacturers Imine Reductase Production Market Share 2025

Figure 30. Rest of World Based Manufacturers Imine Reductase Production Market Share 2025

Figure 31. World Imine Reductase Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 32. World Imine Reductase Production Value Market Share by Type in 2025

Figure 33. Imine Reduction Type

Figure 34. Reductive Amination Type

Figure 35. Cyclic Imine Reduction Type

Figure 36. World Imine Reductase Production Market Share by Type (2021-2032)

Figure 37. World Imine Reductase Production Value Market Share by Type (2021-2032)

Figure 38. World Imine Reductase Average Price by Type (2021-2032) & (US\$/kg)

Figure 39. World Imine Reductase Production Value by Catalytic Selectivity, (USD Million), 2021 & 2025 & 2032

Figure 40. World Imine Reductase Production Value Market Share by Catalytic Selectivity in 2025

Figure 41. Non-enantioselective Type

Figure 42. R-selective Type

Figure 43. S-selective Type

Figure 44. World Imine Reductase Production Market Share by Catalytic Selectivity (2021-2032)

Figure 45. World Imine Reductase Production Value Market Share by Catalytic Selectivity (2021-2032)

Figure 46. World Imine Reductase Average Price by Catalytic Selectivity (2021-2032) & (US\$/kg)

Figure 47. World Imine Reductase Production Value by Form, (USD Million), 2021 & 2025 & 2032

Figure 48. World Imine Reductase Production Value Market Share by Form in 2025

Figure 49. Free Enzyme Preparation

Figure 50. Immobilized Enzyme Preparation

Figure 51. Whole-cell Catalyst

Figure 52. World Imine Reductase Production Market Share by Form (2021-2032)

Figure 53. World Imine Reductase Production Value Market Share by Form (2021-2032)

Figure 54. World Imine Reductase Average Price by Form (2021-2032) & (US\$/kg)

Figure 55. World Imine Reductase Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 56. World Imine Reductase Production Value Market Share by Application in 2025

Figure 57. Pharmaceutical Biocatalysis

Figure 58. Agrochemical Intermediate

Figure 59. Specialty Fine Chemical

Figure 60. Other

Figure 61. World Imine Reductase Production Market Share by Application (2021-2032)

Figure 62. World Imine Reductase Production Value Market Share by Application (2021-2032)

Figure 63. World Imine Reductase Average Price by Application (2021-2032) & (US\$/kg)

Figure 64. Imine Reductase Industry Chain

Figure 65. Imine Reductase Procurement Model

Figure 66. Imine Reductase Sales Model

Figure 67. Imine Reductase Sales Channels, Direct Sales, and Distribution

Figure 68. Methodology

Figure 69. Research Process and Data Source

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