

Global Ketoreductases In Chiral Catalysis Market Growth 2026-2032

<https://marketpublishers.com/r/G871F7F6BF4FEN.html>

Date: July 2026

Pages: 96

Price: US\$ 3,660.00 (Single User License)

ID: G871F7F6BF4FEN

Abstracts

The global Ketoreductases In Chiral Catalysis market size is predicted to grow from US\$ 118 million in 2025 to US\$ 318 million in 2032; it is expected to grow at a CAGR of 15.1% from 2026 to 2032.

Ketoreductases in chiral catalysis are enzymes used within chiral catalytic systems to selectively reduce ketone substrates into chiral alcohols with high enantioselectivity. They typically rely on cofactors such as NAD(P)H and operate through a hydride transfer mechanism, transferring a hydride from a donor to the ketone substrate to produce chiral alcohol products. Ketoreductases in chiral catalysis are widely applied in the synthesis of pharmaceuticals, fine chemicals, and natural product derivatives, serving as key biocatalytic tools to enhance product stereochemical purity and process sustainability. Ketoreductases in chiral catalysis serve as key biocatalysts for chiral alcohol synthesis.

Annual reaction throughput is roughly 12 tons, and nominal global enzyme-related capacity is about 50 tons, spanning laboratory to pilot-scale operations. Pricing averages approximately USD 2,500/kg for free or immobilized enzymes and USD 4,000/kg for engineered ketoreductases, with a blended gross margin of around 48%. Downstream demand is dominated by pharmaceuticals (>60%), particularly for chiral drug intermediates and active pharmaceutical ingredients (APIs), which require high stereochemical purity and process reliability. Fine chemicals and natural product derivatives represent secondary markets, where customers prioritize substrate scope and reaction efficiency. Upstream inputs include ketone substrates and cofactors such as NAD(P)H, midstream encompasses enzyme production, engineering, and process development, while downstream focuses on high-value chiral alcohol and intermediate production. The global industry structure shows parallel innovation and scale-up: US and

EU companies lead in protein engineering and methodology development, offering extensive enzyme libraries and high-throughput screening technologies, whereas Chinese companies excel in process scale-up and CDMO services, enabling commercial production and custom solutions. In terms of competition, companies like Codexis, Novozymes, and Evonik hold advantages in protein engineering and commercialization, while domestic players focus on engineering scale-up and rapid process development. Key technological trends include improving enzyme thermal stability, substrate versatility, and scale-up processes. Integration with whole-cell biocatalysis and immobilized enzyme systems can further reduce costs and enhance efficiency. The market is in a growth phase, driven by increasing demand for chiral drugs, advances in protein engineering, and expansion of CDMO services. Key uncertainties include enzyme stability, substrate range, scale-up challenges, and impacts from global raw material prices and regulatory changes on CDMO cost and delivery.

LP Information, Inc. (LPI) ' newest research report, the "Ketoreductases In Chiral Catalysis Industry Forecast" looks at past sales and reviews total world Ketoreductases In Chiral Catalysis sales in 2025, providing a comprehensive analysis by region and market sector of projected Ketoreductases In Chiral Catalysis sales for 2026 through 2032. With Ketoreductases In Chiral Catalysis sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Ketoreductases In Chiral Catalysis industry.

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Ketoreductases In Chiral Catalysis 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 Ketoreductases In Chiral Catalysis.

This report presents a comprehensive overview, market shares, and growth opportunities of Ketoreductases In Chiral Catalysis market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

NAD(P)H-Dependent Ketoreductase

Engineered Ketoreductase

Biotype Ketoreductase

Segmentation by From:

Free Enzyme

Immobilized Enzyme

Whole Cell

Enzyme Cocktails

Segmentation by Application:

Natural Product Derivatives

Pharmaceuticals

Agrochemicals

Fine Chemicals

Others

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.

Codexis

Evonik

Johnson Matthey

BASF

Novozymes

WuXi AppTec

Asymchem

Lonza

Key Questions Addressed in this Report

What is the 10-year outlook for the global Ketoreductases In Chiral Catalysis market?

What factors are driving Ketoreductases In Chiral Catalysis market growth, globally and by region?

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

How do Ketoreductases In Chiral Catalysis market opportunities vary by end market size?

How does Ketoreductases In Chiral Catalysis break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global Ketoreductases In Chiral Catalysis Annual Sales 2021-2032
 - 2.1.2 World Current & Future Analysis for Ketoreductases In Chiral Catalysis by Geographic Region, 2021, 2025 & 2032
 - 2.1.3 World Current & Future Analysis for Ketoreductases In Chiral Catalysis by Country/Region, 2021, 2025 & 2032
- 2.2 Ketoreductases In Chiral Catalysis Segment by Type
 - 2.2.1 NAD(P)H-Dependent Ketoreductase
 - 2.2.2 Engineered Ketoreductase
 - 2.2.3 Biotype Ketoreductase
 - 2.2.4 Ketoreductases In Chiral Catalysis Sales by Type
 - 2.2.4.1 Global Ketoreductases In Chiral Catalysis Sales Market Share by Type (2021-2026)
 - 2.2.4.2 Global Ketoreductases In Chiral Catalysis Revenue and Market Share by Type (2021-2026)
 - 2.2.4.3 Global Ketoreductases In Chiral Catalysis Sale Price by Type (2021-2026)
- 2.3 Ketoreductases In Chiral Catalysis Segment by From
 - 2.3.1 Free Enzyme
 - 2.3.2 Immobilized Enzyme
 - 2.3.3 Whole Cell
 - 2.3.4 Enzyme Cocktails
 - 2.3.5 Ketoreductases In Chiral Catalysis Sales by From
 - 2.3.5.1 Global Ketoreductases In Chiral Catalysis Sales Market Share by From (2021-2026)

2.3.5.2 Global Ketoreductasese In Chiral Catalysis Revenue and Market Share by From (2021-2026)

2.3.5.3 Global Ketoreductasese In Chiral Catalysis Sale Price by From (2021-2026)

2.4 Ketoreductasese In Chiral Catalysis Segment by Application

2.4.1 Natural Product Derivatives

2.4.2 Pharmaceuticals

2.4.3 Agrochemicals

2.4.4 Fine Chemicals

2.4.5 Others

2.4.6 Ketoreductasese In Chiral Catalysis Sales by Application

2.4.6.1 Global Ketoreductasese In Chiral Catalysis Sale Market Share by Application (2021-2026)

2.4.6.2 Global Ketoreductasese In Chiral Catalysis Revenue and Market Share by Application (2021-2026)

2.4.6.3 Global Ketoreductasese In Chiral Catalysis Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Ketoreductasese In Chiral Catalysis Breakdown Data by Company

3.1.1 Global Ketoreductasese In Chiral Catalysis Annual Sales by Company (2021-2026)

3.1.2 Global Ketoreductasese In Chiral Catalysis Sales Market Share by Company (2021-2026)

3.2 Global Ketoreductasese In Chiral Catalysis Annual Revenue by Company (2021-2026)

3.2.1 Global Ketoreductasese In Chiral Catalysis Revenue by Company (2021-2026)

3.2.2 Global Ketoreductasese In Chiral Catalysis Revenue Market Share by Company (2021-2026)

3.3 Global Ketoreductasese In Chiral Catalysis Sale Price by Company

3.4 Key Manufacturers Ketoreductasese In Chiral Catalysis Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Ketoreductasese In Chiral Catalysis Product Location Distribution

3.4.2 Players Ketoreductasese In Chiral Catalysis Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR KETOREDUCTASESE IN CHIRAL CATALYSIS BY GEOGRAPHIC REGION

4.1 World Historic Ketoreductasese In Chiral Catalysis Market Size by Geographic Region (2021-2026)

4.1.1 Global Ketoreductasese In Chiral Catalysis Annual Sales by Geographic Region (2021-2026)

4.1.2 Global Ketoreductasese In Chiral Catalysis Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Ketoreductasese In Chiral Catalysis Market Size by Country/Region (2021-2026)

4.2.1 Global Ketoreductasese In Chiral Catalysis Annual Sales by Country/Region (2021-2026)

4.2.2 Global Ketoreductasese In Chiral Catalysis Annual Revenue by Country/Region (2021-2026)

4.3 Americas Ketoreductasese In Chiral Catalysis Sales Growth

4.4 APAC Ketoreductasese In Chiral Catalysis Sales Growth

4.5 Europe Ketoreductasese In Chiral Catalysis Sales Growth

4.6 Middle East & Africa Ketoreductasese In Chiral Catalysis Sales Growth

5 AMERICAS

5.1 Americas Ketoreductasese In Chiral Catalysis Sales by Country

5.1.1 Americas Ketoreductasese In Chiral Catalysis Sales by Country (2021-2026)

5.1.2 Americas Ketoreductasese In Chiral Catalysis Revenue by Country (2021-2026)

5.2 Americas Ketoreductasese In Chiral Catalysis Sales by Type (2021-2026)

5.3 Americas Ketoreductasese In Chiral Catalysis Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Ketoreductasese In Chiral Catalysis Sales by Region

6.1.1 APAC Ketoreductasese In Chiral Catalysis Sales by Region (2021-2026)

6.1.2 APAC Ketoreductasese In Chiral Catalysis Revenue by Region (2021-2026)

- 6.2 APAC Ketoreductases In Chiral Catalysis Sales by Type (2021-2026)
- 6.3 APAC Ketoreductases In Chiral Catalysis Sales by Application (2021-2026)
- 6.4 China
- 6.5 Japan
- 6.6 South Korea
- 6.7 Southeast Asia
- 6.8 India
- 6.9 Australia
- 6.10 China Taiwan

7 EUROPE

- 7.1 Europe Ketoreductases In Chiral Catalysis by Country
 - 7.1.1 Europe Ketoreductases In Chiral Catalysis Sales by Country (2021-2026)
 - 7.1.2 Europe Ketoreductases In Chiral Catalysis Revenue by Country (2021-2026)
- 7.2 Europe Ketoreductases In Chiral Catalysis Sales by Type (2021-2026)
- 7.3 Europe Ketoreductases In Chiral Catalysis Sales by Application (2021-2026)
- 7.4 Germany
- 7.5 France
- 7.6 UK
- 7.7 Italy
- 7.8 Russia

8 MIDDLE EAST & AFRICA

- 8.1 Middle East & Africa Ketoreductases In Chiral Catalysis by Country
 - 8.1.1 Middle East & Africa Ketoreductases In Chiral Catalysis Sales by Country (2021-2026)
 - 8.1.2 Middle East & Africa Ketoreductases In Chiral Catalysis Revenue by Country (2021-2026)
- 8.2 Middle East & Africa Ketoreductases In Chiral Catalysis Sales by Type (2021-2026)
- 8.3 Middle East & Africa Ketoreductases In Chiral Catalysis Sales by Application (2021-2026)
- 8.4 Egypt
- 8.5 South Africa
- 8.6 Israel
- 8.7 Turkey
- 8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

- 9.1 Market Drivers & Growth Opportunities
- 9.2 Market Challenges & Risks
- 9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

- 10.1 Raw Material and Suppliers
- 10.2 Manufacturing Cost Structure Analysis of Ketoreductases In Chiral Catalysis
- 10.3 Manufacturing Process Analysis of Ketoreductases In Chiral Catalysis
- 10.4 Industry Chain Structure of Ketoreductases In Chiral Catalysis

11 MARKETING, DISTRIBUTORS AND CUSTOMER

- 11.1 Sales Channel
 - 11.1.1 Direct Channels
 - 11.1.2 Indirect Channels
- 11.2 Ketoreductases In Chiral Catalysis Distributors
- 11.3 Ketoreductases In Chiral Catalysis Customer

12 WORLD FORECAST REVIEW FOR KETOREDUCTASES IN CHIRAL CATALYSIS BY GEOGRAPHIC REGION

- 12.1 Global Ketoreductases In Chiral Catalysis Market Size Forecast by Region
 - 12.1.1 Global Ketoreductases In Chiral Catalysis Forecast by Region (2027-2032)
 - 12.1.2 Global Ketoreductases In Chiral Catalysis Annual Revenue Forecast by Region (2027-2032)
- 12.2 Americas Forecast by Country (2027-2032)
- 12.3 APAC Forecast by Region (2027-2032)
- 12.4 Europe Forecast by Country (2027-2032)
- 12.5 Middle East & Africa Forecast by Country (2027-2032)
- 12.6 Global Ketoreductases In Chiral Catalysis Forecast by Type (2027-2032)
- 12.7 Global Ketoreductases In Chiral Catalysis Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

- 13.1 Codexis

- 13.1.1 Codexis Company Information
- 13.1.2 Codexis Ketoreductasese In Chiral Catalysis Product Portfolios and Specifications
- 13.1.3 Codexis Ketoreductasese In Chiral Catalysis Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.1.4 Codexis Main Business Overview
- 13.1.5 Codexis Latest Developments
- 13.2 Evonik
 - 13.2.1 Evonik Company Information
 - 13.2.2 Evonik Ketoreductasese In Chiral Catalysis Product Portfolios and Specifications
 - 13.2.3 Evonik Ketoreductasese In Chiral Catalysis Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.2.4 Evonik Main Business Overview
 - 13.2.5 Evonik Latest Developments
- 13.3 Johnson Matthey
 - 13.3.1 Johnson Matthey Company Information
 - 13.3.2 Johnson Matthey Ketoreductasese In Chiral Catalysis Product Portfolios and Specifications
 - 13.3.3 Johnson Matthey Ketoreductasese In Chiral Catalysis Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.3.4 Johnson Matthey Main Business Overview
 - 13.3.5 Johnson Matthey Latest Developments
- 13.4 BASF
 - 13.4.1 BASF Company Information
 - 13.4.2 BASF Ketoreductasese In Chiral Catalysis Product Portfolios and Specifications
 - 13.4.3 BASF Ketoreductasese In Chiral Catalysis Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.4.4 BASF Main Business Overview
 - 13.4.5 BASF Latest Developments
- 13.5 Novozymes
 - 13.5.1 Novozymes Company Information
 - 13.5.2 Novozymes Ketoreductasese In Chiral Catalysis Product Portfolios and Specifications
 - 13.5.3 Novozymes Ketoreductasese In Chiral Catalysis Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.5.4 Novozymes Main Business Overview
 - 13.5.5 Novozymes Latest Developments
- 13.6 WuXi AppTec

- 13.6.1 WuXi AppTec Company Information
- 13.6.2 WuXi AppTec Ketoreductasese In Chiral Catalysis Product Portfolios and Specifications
- 13.6.3 WuXi AppTec Ketoreductasese In Chiral Catalysis Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.6.4 WuXi AppTec Main Business Overview
- 13.6.5 WuXi AppTec Latest Developments
- 13.7 Asymchem
 - 13.7.1 Asymchem Company Information
 - 13.7.2 Asymchem Ketoreductasese In Chiral Catalysis Product Portfolios and Specifications
 - 13.7.3 Asymchem Ketoreductasese In Chiral Catalysis Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.7.4 Asymchem Main Business Overview
 - 13.7.5 Asymchem Latest Developments
- 13.8 Lonza
 - 13.8.1 Lonza Company Information
 - 13.8.2 Lonza Ketoreductasese In Chiral Catalysis Product Portfolios and Specifications
 - 13.8.3 Lonza Ketoreductasese In Chiral Catalysis Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.8.4 Lonza Main Business Overview
 - 13.8.5 Lonza Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Ketoreductases In Chiral Catalysis Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Ketoreductases In Chiral Catalysis Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of NAD(P)H-Dependent Ketoreductase

Table 4. Major Players of Engineered Ketoreductase

Table 5. Major Players of Biotype Ketoreductase

Table 6. Global Ketoreductases In Chiral Catalysis Sales by Type (2021-2026) & (kg)

Table 7. Global Ketoreductases In Chiral Catalysis Sales Market Share by Type (2021-2026)

Table 8. Global Ketoreductases In Chiral Catalysis Revenue by Type (2021-2026) & (\$ million)

Table 9. Global Ketoreductases In Chiral Catalysis Revenue Market Share by Type (2021-2026)

Table 10. Global Ketoreductases In Chiral Catalysis Sale Price by Type (2021-2026) & (US\$/kg)

Table 11. Major Players of Free Enzyme

Table 12. Major Players of Immobilized Enzyme

Table 13. Major Players of Whole Cell

Table 14. Major Players of Enzyme Cocktails

Table 15. Global Ketoreductases In Chiral Catalysis Sales by From (2021-2026) & (kg)

Table 16. Global Ketoreductases In Chiral Catalysis Sales Market Share by From (2021-2026)

Table 17. Global Ketoreductases In Chiral Catalysis Revenue by From (2021-2026) & (\$ million)

Table 18. Global Ketoreductases In Chiral Catalysis Revenue Market Share by From (2021-2026)

Table 19. Global Ketoreductases In Chiral Catalysis Sale Price by From (2021-2026) & (US\$/kg)

Table 20. Global Ketoreductases In Chiral Catalysis Sale by Application (2021-2026) & (kg)

Table 21. Global Ketoreductases In Chiral Catalysis Sale Market Share by Application (2021-2026)

Table 22. Global Ketoreductases In Chiral Catalysis Revenue by Application (2021-2026) & (\$ million)

Table 23. Global Ketoreductasese In Chiral Catalysis Revenue Market Share by Application (2021-2026)

Table 24. Global Ketoreductasese In Chiral Catalysis Sale Price by Application (2021-2026) & (US\$/kg)

Table 25. Global Ketoreductasese In Chiral Catalysis Sales by Company (2021-2026) & (kg)

Table 26. Global Ketoreductasese In Chiral Catalysis Sales Market Share by Company (2021-2026)

Table 27. Global Ketoreductasese In Chiral Catalysis Revenue by Company (2021-2026) & (\$ millions)

Table 28. Global Ketoreductasese In Chiral Catalysis Revenue Market Share by Company (2021-2026)

Table 29. Global Ketoreductasese In Chiral Catalysis Sale Price by Company (2021-2026) & (US\$/kg)

Table 30. Key Manufacturers Ketoreductasese In Chiral Catalysis Producing Area Distribution and Sales Area

Table 31. Players Ketoreductasese In Chiral Catalysis Products Offered

Table 32. Ketoreductasese In Chiral Catalysis Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 33. New Products and Potential Entrants

Table 34. Market M&A Activity & Strategy

Table 35. Global Ketoreductasese In Chiral Catalysis Sales by Geographic Region (2021-2026) & (kg)

Table 36. Global Ketoreductasese In Chiral Catalysis Sales Market Share Geographic Region (2021-2026)

Table 37. Global Ketoreductasese In Chiral Catalysis Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 38. Global Ketoreductasese In Chiral Catalysis Revenue Market Share by Geographic Region (2021-2026)

Table 39. Global Ketoreductasese In Chiral Catalysis Sales by Country/Region (2021-2026) & (kg)

Table 40. Global Ketoreductasese In Chiral Catalysis Sales Market Share by Country/Region (2021-2026)

Table 41. Global Ketoreductasese In Chiral Catalysis Revenue by Country/Region (2021-2026) & (\$ millions)

Table 42. Global Ketoreductasese In Chiral Catalysis Revenue Market Share by Country/Region (2021-2026)

Table 43. Americas Ketoreductasese In Chiral Catalysis Sales by Country (2021-2026) & (kg)

Table 44. Americas Ketoreductases In Chiral Catalysis Sales Market Share by Country (2021-2026)

Table 45. Americas Ketoreductases In Chiral Catalysis Revenue by Country (2021-2026) & (\$ millions)

Table 46. Americas Ketoreductases In Chiral Catalysis Sales by Type (2021-2026) & (kg)

Table 47. Americas Ketoreductases In Chiral Catalysis Sales by Application (2021-2026) & (kg)

Table 48. APAC Ketoreductases In Chiral Catalysis Sales by Region (2021-2026) & (kg)

Table 49. APAC Ketoreductases In Chiral Catalysis Sales Market Share by Region (2021-2026)

Table 50. APAC Ketoreductases In Chiral Catalysis Revenue by Region (2021-2026) & (\$ millions)

Table 51. APAC Ketoreductases In Chiral Catalysis Sales by Type (2021-2026) & (kg)

Table 52. APAC Ketoreductases In Chiral Catalysis Sales by Application (2021-2026) & (kg)

Table 53. Europe Ketoreductases In Chiral Catalysis Sales by Country (2021-2026) & (kg)

Table 54. Europe Ketoreductases In Chiral Catalysis Revenue by Country (2021-2026) & (\$ millions)

Table 55. Europe Ketoreductases In Chiral Catalysis Sales by Type (2021-2026) & (kg)

Table 56. Europe Ketoreductases In Chiral Catalysis Sales by Application (2021-2026) & (kg)

Table 57. Middle East & Africa Ketoreductases In Chiral Catalysis Sales by Country (2021-2026) & (kg)

Table 58. Middle East & Africa Ketoreductases In Chiral Catalysis Revenue Market Share by Country (2021-2026)

Table 59. Middle East & Africa Ketoreductases In Chiral Catalysis Sales by Type (2021-2026) & (kg)

Table 60. Middle East & Africa Ketoreductases In Chiral Catalysis Sales by Application (2021-2026) & (kg)

Table 61. Key Market Drivers & Growth Opportunities of Ketoreductases In Chiral Catalysis

Table 62. Key Market Challenges & Risks of Ketoreductases In Chiral Catalysis

Table 63. Key Industry Trends of Ketoreductases In Chiral Catalysis

Table 64. Ketoreductases In Chiral Catalysis Raw Material

Table 65. Key Suppliers of Raw Materials

Table 66. Ketoreductasese In Chiral Catalysis Distributors List

Table 67. Ketoreductasese In Chiral Catalysis Customer List

Table 68. Global Ketoreductasese In Chiral Catalysis Sales Forecast by Region
(2027-2032) & (kg)

Table 69. Global Ketoreductasese In Chiral Catalysis Revenue Forecast by Region
(2027-2032) & (\$ millions)

Table 70. Americas Ketoreductasese In Chiral Catalysis Sales Forecast by Country
(2027-2032) & (kg)

Table 71. Americas Ketoreductasese In Chiral Catalysis Annual Revenue Forecast by
Country (2027-2032) & (\$ millions)

Table 72. APAC Ketoreductasese In Chiral Catalysis Sales Forecast by Region
(2027-2032) & (kg)

Table 73. APAC Ketoreductasese In Chiral Catalysis Annual Revenue Forecast by
Region (2027-2032) & (\$ millions)

Table 74. Europe Ketoreductasese In Chiral Catalysis Sales Forecast by Country
(2027-2032) & (kg)

Table 75. Europe Ketoreductasese In Chiral Catalysis Revenue Forecast by Country
(2027-2032) & (\$ millions)

Table 76. Middle East & Africa Ketoreductasese In Chiral Catalysis Sales Forecast by
Country (2027-2032) & (kg)

Table 77. Middle East & Africa Ketoreductasese In Chiral Catalysis Revenue Forecast
by Country (2027-2032) & (\$ millions)

Table 78. Global Ketoreductasese In Chiral Catalysis Sales Forecast by Type
(2027-2032) & (kg)

Table 79. Global Ketoreductasese In Chiral Catalysis Revenue Forecast by Type
(2027-2032) & (\$ millions)

Table 80. Global Ketoreductasese In Chiral Catalysis Sales Forecast by Application
(2027-2032) & (kg)

Table 81. Global Ketoreductasese In Chiral Catalysis Revenue Forecast by Application
(2027-2032) & (\$ millions)

Table 82. Codexis Basic Information, Ketoreductasese In Chiral Catalysis
Manufacturing Base, Sales Area and Its Competitors

Table 83. Codexis Ketoreductasese In Chiral Catalysis Product Portfolios and
Specifications

Table 84. Codexis Ketoreductasese In Chiral Catalysis Sales (kg), Revenue (\$ Million),
Price (US\$/kg) and Gross Margin (2021-2026)

Table 85. Codexis Main Business

Table 86. Codexis Latest Developments

Table 87. Evonik Basic Information, Ketoreductasese In Chiral Catalysis Manufacturing

Base, Sales Area and Its Competitors

Table 88. Evonik Ketoreductasese In Chiral Catalysis Product Portfolios and Specifications

Table 89. Evonik Ketoreductasese In Chiral Catalysis Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 90. Evonik Main Business

Table 91. Evonik Latest Developments

Table 92. Johnson Matthey Basic Information, Ketoreductasese In Chiral Catalysis Manufacturing Base, Sales Area and Its Competitors

Table 93. Johnson Matthey Ketoreductasese In Chiral Catalysis Product Portfolios and Specifications

Table 94. Johnson Matthey Ketoreductasese In Chiral Catalysis Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 95. Johnson Matthey Main Business

Table 96. Johnson Matthey Latest Developments

Table 97. BASF Basic Information, Ketoreductasese In Chiral Catalysis Manufacturing Base, Sales Area and Its Competitors

Table 98. BASF Ketoreductasese In Chiral Catalysis Product Portfolios and Specifications

Table 99. BASF Ketoreductasese In Chiral Catalysis Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 100. BASF Main Business

Table 101. BASF Latest Developments

Table 102. Novozymes Basic Information, Ketoreductasese In Chiral Catalysis Manufacturing Base, Sales Area and Its Competitors

Table 103. Novozymes Ketoreductasese In Chiral Catalysis Product Portfolios and Specifications

Table 104. Novozymes Ketoreductasese In Chiral Catalysis Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 105. Novozymes Main Business

Table 106. Novozymes Latest Developments

Table 107. WuXi AppTec Basic Information, Ketoreductasese In Chiral Catalysis Manufacturing Base, Sales Area and Its Competitors

Table 108. WuXi AppTec Ketoreductasese In Chiral Catalysis Product Portfolios and Specifications

Table 109. WuXi AppTec Ketoreductasese In Chiral Catalysis Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 110. WuXi AppTec Main Business

Table 111. WuXi AppTec Latest Developments

Table 112. Asymchem Basic Information, Ketoreductasese In Chiral Catalysis Manufacturing Base, Sales Area and Its Competitors

Table 113. Asymchem Ketoreductasese In Chiral Catalysis Product Portfolios and Specifications

Table 114. Asymchem Ketoreductasese In Chiral Catalysis Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 115. Asymchem Main Business

Table 116. Asymchem Latest Developments

Table 117. Lonza Basic Information, Ketoreductasese In Chiral Catalysis Manufacturing Base, Sales Area and Its Competitors

Table 118. Lonza Ketoreductasese In Chiral Catalysis Product Portfolios and Specifications

Table 119. Lonza Ketoreductasese In Chiral Catalysis Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 120. Lonza Main Business

Table 121. Lonza Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Ketoreductases In Chiral Catalysis
- Figure 2. Ketoreductases In Chiral Catalysis Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Ketoreductases In Chiral Catalysis Sales Growth Rate 2021-2032 (kg)
- Figure 7. Global Ketoreductases In Chiral Catalysis Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Ketoreductases In Chiral Catalysis Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Ketoreductases In Chiral Catalysis Sales Market Share by Country/Region (2025)
- Figure 10. Ketoreductases In Chiral Catalysis Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of NAD(P)H-Dependent Ketoreductase
- Figure 12. Product Picture of Engineered Ketoreductase
- Figure 13. Product Picture of Biotype Ketoreductase
- Figure 14. Global Ketoreductases In Chiral Catalysis Sales Market Share by Type in 2026
- Figure 15. Global Ketoreductases In Chiral Catalysis Revenue Market Share by Type (2021-2026)
- Figure 16. Product Picture of Free Enzyme
- Figure 17. Product Picture of Immobilized Enzyme
- Figure 18. Product Picture of Whole Cell
- Figure 19. Product Picture of Enzyme Cocktails
- Figure 20. Global Ketoreductases In Chiral Catalysis Sales Market Share by From in 2026
- Figure 21. Global Ketoreductases In Chiral Catalysis Revenue Market Share by From (2021-2026)
- Figure 22. Ketoreductases In Chiral Catalysis Consumed in Natural Product Derivatives
- Figure 23. Global Ketoreductases In Chiral Catalysis Market: Natural Product Derivatives (2021-2026) & (kg)
- Figure 24. Ketoreductases In Chiral Catalysis Consumed in Pharmaceuticals
- Figure 25. Global Ketoreductases In Chiral Catalysis Market: Pharmaceuticals

(2021-2026) & (kg)

Figure 26. Ketoreductases In Chiral Catalysis Consumed in Agrochemicals

Figure 27. Global Ketoreductases In Chiral Catalysis Market: Agrochemicals (2021-2026) & (kg)

Figure 28. Ketoreductases In Chiral Catalysis Consumed in Fine Chemicals

Figure 29. Global Ketoreductases In Chiral Catalysis Market: Fine Chemicals (2021-2026) & (kg)

Figure 30. Ketoreductases In Chiral Catalysis Consumed in Others

Figure 31. Global Ketoreductases In Chiral Catalysis Market: Others (2021-2026) & (kg)

Figure 32. Global Ketoreductases In Chiral Catalysis Sale Market Share by Application (2025)

Figure 33. Global Ketoreductases In Chiral Catalysis Revenue Market Share by Application in 2025

Figure 34. Ketoreductases In Chiral Catalysis Sales by Company in 2025 (kg)

Figure 35. Global Ketoreductases In Chiral Catalysis Sales Market Share by Company in 2025

Figure 36. Ketoreductases In Chiral Catalysis Revenue by Company in 2025 (\$ millions)

Figure 37. Global Ketoreductases In Chiral Catalysis Revenue Market Share by Company in 2025

Figure 38. Global Ketoreductases In Chiral Catalysis Sales Market Share by Geographic Region (2021-2026)

Figure 39. Global Ketoreductases In Chiral Catalysis Revenue Market Share by Geographic Region in 2025

Figure 40. Americas Ketoreductases In Chiral Catalysis Sales 2021-2026 (kg)

Figure 41. Americas Ketoreductases In Chiral Catalysis Revenue 2021-2026 (\$ millions)

Figure 42. APAC Ketoreductases In Chiral Catalysis Sales 2021-2026 (kg)

Figure 43. APAC Ketoreductases In Chiral Catalysis Revenue 2021-2026 (\$ millions)

Figure 44. Europe Ketoreductases In Chiral Catalysis Sales 2021-2026 (kg)

Figure 45. Europe Ketoreductases In Chiral Catalysis Revenue 2021-2026 (\$ millions)

Figure 46. Middle East & Africa Ketoreductases In Chiral Catalysis Sales 2021-2026 (kg)

Figure 47. Middle East & Africa Ketoreductases In Chiral Catalysis Revenue 2021-2026 (\$ millions)

Figure 48. Americas Ketoreductases In Chiral Catalysis Sales Market Share by Country in 2025

Figure 49. Americas Ketoreductases In Chiral Catalysis Revenue Market Share by

Country (2021-2026)

Figure 50. Americas Ketoreductases In Chiral Catalysis Sales Market Share by Type (2021-2026)

Figure 51. Americas Ketoreductases In Chiral Catalysis Sales Market Share by Application (2021-2026)

Figure 52. United States Ketoreductases In Chiral Catalysis Revenue Growth 2021-2026 (\$ millions)

Figure 53. Canada Ketoreductases In Chiral Catalysis Revenue Growth 2021-2026 (\$ millions)

Figure 54. Mexico Ketoreductases In Chiral Catalysis Revenue Growth 2021-2026 (\$ millions)

Figure 55. Brazil Ketoreductases In Chiral Catalysis Revenue Growth 2021-2026 (\$ millions)

Figure 56. APAC Ketoreductases In Chiral Catalysis Sales Market Share by Region in 2025

Figure 57. APAC Ketoreductases In Chiral Catalysis Revenue Market Share by Region (2021-2026)

Figure 58. APAC Ketoreductases In Chiral Catalysis Sales Market Share by Type (2021-2026)

Figure 59. APAC Ketoreductases In Chiral Catalysis Sales Market Share by Application (2021-2026)

Figure 60. China Ketoreductases In Chiral Catalysis Revenue Growth 2021-2026 (\$ millions)

Figure 61. Japan Ketoreductases In Chiral Catalysis Revenue Growth 2021-2026 (\$ millions)

Figure 62. South Korea Ketoreductases In Chiral Catalysis Revenue Growth 2021-2026 (\$ millions)

Figure 63. Southeast Asia Ketoreductases In Chiral Catalysis Revenue Growth 2021-2026 (\$ millions)

Figure 64. India Ketoreductases In Chiral Catalysis Revenue Growth 2021-2026 (\$ millions)

Figure 65. Australia Ketoreductases In Chiral Catalysis Revenue Growth 2021-2026 (\$ millions)

Figure 66. China Taiwan Ketoreductases In Chiral Catalysis Revenue Growth 2021-2026 (\$ millions)

Figure 67. Europe Ketoreductases In Chiral Catalysis Sales Market Share by Country in 2025

Figure 68. Europe Ketoreductases In Chiral Catalysis Revenue Market Share by Country (2021-2026)

Figure 69. Europe Ketoreductases In Chiral Catalysis Sales Market Share by Type (2021-2026)

Figure 70. Europe Ketoreductases In Chiral Catalysis Sales Market Share by Application (2021-2026)

Figure 71. Germany Ketoreductases In Chiral Catalysis Revenue Growth 2021-2026 (\$ millions)

Figure 72. France Ketoreductases In Chiral Catalysis Revenue Growth 2021-2026 (\$ millions)

Figure 73. UK Ketoreductases In Chiral Catalysis Revenue Growth 2021-2026 (\$ millions)

Figure 74. Italy Ketoreductases In Chiral Catalysis Revenue Growth 2021-2026 (\$ millions)

Figure 75. Russia Ketoreductases In Chiral Catalysis Revenue Growth 2021-2026 (\$ millions)

Figure 76. Middle East & Africa Ketoreductases In Chiral Catalysis Sales Market Share by Country (2021-2026)

Figure 77. Middle East & Africa Ketoreductases In Chiral Catalysis Sales Market Share by Type (2021-2026)

Figure 78. Middle East & Africa Ketoreductases In Chiral Catalysis Sales Market Share by Application (2021-2026)

Figure 79. Egypt Ketoreductases In Chiral Catalysis Revenue Growth 2021-2026 (\$ millions)

Figure 80. South Africa Ketoreductases In Chiral Catalysis Revenue Growth 2021-2026 (\$ millions)

Figure 81. Israel Ketoreductases In Chiral Catalysis Revenue Growth 2021-2026 (\$ millions)

Figure 82. Turkey Ketoreductases In Chiral Catalysis Revenue Growth 2021-2026 (\$ millions)

Figure 83. GCC Countries Ketoreductases In Chiral Catalysis Revenue Growth 2021-2026 (\$ millions)

Figure 84. Manufacturing Cost Structure Analysis of Ketoreductases In Chiral Catalysis in 2026

Figure 85. Manufacturing Process Analysis of Ketoreductases In Chiral Catalysis

Figure 86. Industry Chain Structure of Ketoreductases In Chiral Catalysis

Figure 87. Channels of Distribution

Figure 88. Global Ketoreductases In Chiral Catalysis Sales Market Forecast by Region (2027-2032)

Figure 89. Global Ketoreductases In Chiral Catalysis Revenue Market Share Forecast by Region (2027-2032)

Figure 90. Global Ketoreductases In Chiral Catalysis Sales Market Share Forecast by Type (2027-2032)

Figure 91. Global Ketoreductases In Chiral Catalysis Revenue Market Share Forecast by Type (2027-2032)

Figure 92. Global Ketoreductases In Chiral Catalysis Sales Market Share Forecast by Application (2027-2032)

Figure 93. Global Ketoreductases In Chiral Catalysis Revenue Market Share Forecast by Application (2027-2032)

I would like to order

Product name: Global Ketoreductases In Chiral Catalysis Market Growth 2026-2032

Product link: <https://marketpublishers.com/r/G871F7F6BF4FEN.html>

Price: US\$ 3,660.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G871F7F6BF4FEN.html>