

# Global Ketoreductases for Chiral Catalysis Market 2026 by Company, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G09FB7D7704FEN.html>

Date: June 2026

Pages: 94

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

ID: G09FB7D7704FEN

## Abstracts

According to our (Global Info Research) latest study, the global Ketoreductases for Chiral Catalysis market size was valued at US\$ 112 million in 2025 and is forecast to a readjusted size of US\$ 178 million by 2032 with a CAGR of 6.9% during review period.

Ketoreductases for chiral catalysis are oxidoreductase enzymes that selectively convert prochiral ketone substrates into chiral alcohols with defined stereochemical configurations through asymmetric reduction reactions. They typically operate with NAD(H)- or NADP(H)-based cofactor systems and are often integrated with cofactor regeneration technologies to support efficient catalytic turnover. Owing to their strong chemoselectivity, regioselectivity, and enantioselectivity, these enzymes can construct complex chiral centers under relatively mild reaction conditions, making them important tools in greener synthesis and industrial biocatalysis. Their upstream inputs mainly include enzyme gene resources, engineered microbial strains, fermentation media, expression systems, cofactors and cofactor-regeneration components, stabilizers, and purification materials, while downstream customers mainly include pharmaceutical intermediate manufacturers, API process developers, fine chemical producers, industrial biocatalysis solution providers, and research institutions. They are widely used in the preparation of chiral pharmaceutical building blocks, functionalized alcohol intermediates, and other high-value fine chemicals. The overall industry gross margin for ketoreductases used in chiral catalysis is conservatively estimated at approximately 45%–60%.

Ketoreductases for chiral catalysis have become one of the more representative high-value enzyme categories in industrial biocatalysis, with demand concentrated in the synthesis of chiral alcohols, pharmaceutical intermediates, and advanced fine

chemicals. Compared with conventional metal-catalyzed or multi-step chemical reduction routes, ketoreductases offer clear advantages in enantioselectivity, milder reaction conditions, and by-product control. As a result, they are gaining continued relevance in processes requiring precise stereochemical construction. On the supply side, the market is evolving toward a more complete structure that includes screening kits, standardized enzyme preparations, engineered biocatalysts, and process scale-up services, indicating a gradual shift from enzyme discovery toward reproducible industrial application.

Future development will focus on broader substrate compatibility, stronger enzyme robustness, and improved industrial feasibility for more challenging asymmetric reductions. Advances in protein engineering, semi-rational design, and high-throughput screening are making ketoreductases more applicable to complex aromatic ketones, sterically hindered substrates, and high-value pharmaceutical precursors. Recent technical work also shows that engineered ketoreductases can support demanding transformations in the synthesis of sophisticated drug molecules, suggesting that the commercial boundary of this enzyme class is still expanding rather than approaching maturity.

The main growth drivers come from sustained demand for greener synthesis, higher process safety, and tighter stereochemical control in pharmaceuticals and fine chemicals. At the same time, progress in cofactor regeneration, enzyme immobilization, and continuous reaction systems is improving the economic viability of ketoreductase-based processes at larger scale. These developments are helping ketoreductases move beyond laboratory screening into pilot and commercial manufacturing environments. Suppliers with broad enzyme libraries, rapid screening platforms, cofactor-system design capability, and proven process-transfer experience are likely to gain stronger competitive positions over time.

Despite these opportunities, further market penetration still faces several constraints. Ketoreductase performance is often highly sensitive to substrate structure, cofactor system, solvent environment, and reaction equilibrium, which means many projects continue to require case-specific screening and enzyme engineering rather than straightforward standardization. Cofactor consumption and regeneration efficiency, enzyme stability under high substrate loading and complex reaction conditions, and overall process-cost control remain central issues for broader industrial substitution. Going forward, competition in this field will increasingly depend on integrated capabilities that combine enzyme-performance improvement with holistic process optimization.

This report is a detailed and comprehensive analysis for global Ketoreductases for Chiral Catalysis market. Both quantitative and qualitative analyses are presented by company, 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 Ketoreductases for Chiral Catalysis market size and forecasts, in consumption value (\$ Million), 2021-2032

Global Ketoreductases for Chiral Catalysis market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global Ketoreductases for Chiral Catalysis market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global Ketoreductases for Chiral Catalysis market shares of main players, in revenue (\$ Million), 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 Ketoreductases for Chiral Catalysis

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 Ketoreductases for Chiral Catalysis market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Codexis, Almac Group, Prozomix, Johnson Matthey, Evoxx Technologies, Amano Enzyme, Zhejiang Syncozymes Bio-pharmaceutical, Asymchem,

etc.

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

### Market segmentation

Ketoreductases for Chiral Catalysis 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. This analysis can help you expand your business by targeting qualified niche markets.

### Market segment by Type

Enzyme Screening Kits

Individual Enzyme Preparations

Other

### Market segment by Cofactor Dependence

NAD-dependent Enzymes

NADP-dependent Enzymes

Other

### Market segment by Application

Pharmaceutical Intermediates

Fine Chemicals

Other

Market segment by players, this report covers

Codexis

Almac Group

Prozomix

Johnson Matthey

Evoxx Technologies

Amano Enzyme

Zhejiang Syncozymes Bio-pharmaceutical

Asymchem

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Ketoreductases for Chiral Catalysis product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Ketoreductases for Chiral Catalysis, with revenue, gross margin, and global market share of Ketoreductases for Chiral Catalysis

from 2021 to 2026.

Chapter 3, the Ketoreductases for Chiral Catalysis competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026. and Ketoreductases for Chiral Catalysis market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Ketoreductases for Chiral Catalysis.

Chapter 13, to describe Ketoreductases for Chiral Catalysis research findings and conclusion.

## Contents

### 1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Classification of Ketoreductases for Chiral Catalysis by Type

1.3.1 Overview: Global Ketoreductases for Chiral Catalysis Market Size by Type: 2021 Versus 2025 Versus 2032

1.3.2 Global Ketoreductases for Chiral Catalysis Consumption Value Market Share by Type in 2025

1.3.3 Enzyme Screening Kits

1.3.4 Individual Enzyme Preparations

1.3.5 Other

1.4 Classification of Ketoreductases for Chiral Catalysis by Cofactor Dependence

1.4.1 Overview: Global Ketoreductases for Chiral Catalysis Market Size by Cofactor Dependence: 2021 Versus 2025 Versus 2032

1.4.2 Global Ketoreductases for Chiral Catalysis Consumption Value Market Share by Cofactor Dependence in 2025

1.4.3 NAD-dependent Enzymes

1.4.4 NADP-dependent Enzymes

1.4.5 Other

1.5 Global Ketoreductases for Chiral Catalysis Market by Application

1.5.1 Overview: Global Ketoreductases for Chiral Catalysis Market Size by Application: 2021 Versus 2025 Versus 2032

1.5.2 Pharmaceutical Intermediates

1.5.3 Fine Chemicals

1.5.4 Other

1.6 Global Ketoreductases for Chiral Catalysis Market Size & Forecast

1.7 Global Ketoreductases for Chiral Catalysis Market Size and Forecast by Region

1.7.1 Global Ketoreductases for Chiral Catalysis Market Size by Region: 2021 VS 2025 VS 2032

1.7.2 Global Ketoreductases for Chiral Catalysis Market Size by Region, (2021-2032)

1.7.3 North America Ketoreductases for Chiral Catalysis Market Size and Prospect (2021-2032)

1.7.4 Europe Ketoreductases for Chiral Catalysis Market Size and Prospect (2021-2032)

1.7.5 Asia-Pacific Ketoreductases for Chiral Catalysis Market Size and Prospect (2021-2032)

1.7.6 South America Ketoreductases for Chiral Catalysis Market Size and Prospect (2021-2032)

1.7.7 Middle East & Africa Ketoreductases for Chiral Catalysis Market Size and Prospect (2021-2032)

## **2 COMPANY PROFILES**

### 2.1 Codexis

2.1.1 Codexis Details

2.1.2 Codexis Major Business

2.1.3 Codexis Ketoreductases for Chiral Catalysis Product and Solutions

2.1.4 Codexis Ketoreductases for Chiral Catalysis Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 Codexis Recent Developments and Future Plans

### 2.2 Almac Group

2.2.1 Almac Group Details

2.2.2 Almac Group Major Business

2.2.3 Almac Group Ketoreductases for Chiral Catalysis Product and Solutions

2.2.4 Almac Group Ketoreductases for Chiral Catalysis Revenue, Gross Margin and Market Share (2021-2026)

2.2.5 Almac Group Recent Developments and Future Plans

### 2.3 Prozomix

2.3.1 Prozomix Details

2.3.2 Prozomix Major Business

2.3.3 Prozomix Ketoreductases for Chiral Catalysis Product and Solutions

2.3.4 Prozomix Ketoreductases for Chiral Catalysis Revenue, Gross Margin and Market Share (2021-2026)

2.3.5 Prozomix Recent Developments and Future Plans

### 2.4 Johnson Matthey

2.4.1 Johnson Matthey Details

2.4.2 Johnson Matthey Major Business

2.4.3 Johnson Matthey Ketoreductases for Chiral Catalysis Product and Solutions

2.4.4 Johnson Matthey Ketoreductases for Chiral Catalysis Revenue, Gross Margin and Market Share (2021-2026)

2.4.5 Johnson Matthey Recent Developments and Future Plans

### 2.5 Evoxx Technologies

2.5.1 Evoxx Technologies Details

2.5.2 Evoxx Technologies Major Business

2.5.3 Evoxx Technologies Ketoreductases for Chiral Catalysis Product and Solutions

2.5.4 Evoxx Technologies Ketoreductases for Chiral Catalysis Revenue, Gross Margin and Market Share (2021-2026)

2.5.5 Evoxx Technologies Recent Developments and Future Plans

2.6 Amano Enzyme

2.6.1 Amano Enzyme Details

2.6.2 Amano Enzyme Major Business

2.6.3 Amano Enzyme Ketoreductases for Chiral Catalysis Product and Solutions

2.6.4 Amano Enzyme Ketoreductases for Chiral Catalysis Revenue, Gross Margin and Market Share (2021-2026)

2.6.5 Amano Enzyme Recent Developments and Future Plans

2.7 Zhejiang Syncozymes Bio-pharmaceutical

2.7.1 Zhejiang Syncozymes Bio-pharmaceutical Details

2.7.2 Zhejiang Syncozymes Bio-pharmaceutical Major Business

2.7.3 Zhejiang Syncozymes Bio-pharmaceutical Ketoreductases for Chiral Catalysis Product and Solutions

2.7.4 Zhejiang Syncozymes Bio-pharmaceutical Ketoreductases for Chiral Catalysis Revenue, Gross Margin and Market Share (2021-2026)

2.7.5 Zhejiang Syncozymes Bio-pharmaceutical Recent Developments and Future Plans

2.8 Asymchem

2.8.1 Asymchem Details

2.8.2 Asymchem Major Business

2.8.3 Asymchem Ketoreductases for Chiral Catalysis Product and Solutions

2.8.4 Asymchem Ketoreductases for Chiral Catalysis Revenue, Gross Margin and Market Share (2021-2026)

2.8.5 Asymchem Recent Developments and Future Plans

### **3 MARKET COMPETITION, BY PLAYERS**

3.1 Global Ketoreductases for Chiral Catalysis Revenue and Share by Players (2021-2026)

3.2 Market Share Analysis (2025)

3.2.1 Market Share of Ketoreductases for Chiral Catalysis by Company Revenue

3.2.2 Top 3 Ketoreductases for Chiral Catalysis Players Market Share in 2025

3.2.3 Top 6 Ketoreductases for Chiral Catalysis Players Market Share in 2025

3.3 Ketoreductases for Chiral Catalysis Market: Overall Company Footprint Analysis

3.3.1 Ketoreductases for Chiral Catalysis Market: Region Footprint

3.3.2 Ketoreductases for Chiral Catalysis Market: Company Product Type Footprint

3.3.3 Ketoreductases for Chiral Catalysis Market: Company Product Application

Footprint

3.4 New Market Entrants and Barriers to Market Entry

3.5 Mergers, Acquisition, Agreements, and Collaborations

## **4 MARKET SIZE SEGMENT BY TYPE**

4.1 Global Ketoreductases for Chiral Catalysis Consumption Value and Market Share by Type (2021-2026)

4.2 Global Ketoreductases for Chiral Catalysis Market Forecast by Type (2027-2032)

## **5 MARKET SIZE SEGMENT BY APPLICATION**

5.1 Global Ketoreductases for Chiral Catalysis Consumption Value Market Share by Application (2021-2026)

5.2 Global Ketoreductases for Chiral Catalysis Market Forecast by Application (2027-2032)

## **6 NORTH AMERICA**

6.1 North America Ketoreductases for Chiral Catalysis Consumption Value by Type (2021-2032)

6.2 North America Ketoreductases for Chiral Catalysis Market Size by Application (2021-2032)

6.3 North America Ketoreductases for Chiral Catalysis Market Size by Country

6.3.1 North America Ketoreductases for Chiral Catalysis Consumption Value by Country (2021-2032)

6.3.2 United States Ketoreductases for Chiral Catalysis Market Size and Forecast (2021-2032)

6.3.3 Canada Ketoreductases for Chiral Catalysis Market Size and Forecast (2021-2032)

6.3.4 Mexico Ketoreductases for Chiral Catalysis Market Size and Forecast (2021-2032)

## **7 EUROPE**

7.1 Europe Ketoreductases for Chiral Catalysis Consumption Value by Type (2021-2032)

7.2 Europe Ketoreductases for Chiral Catalysis Consumption Value by Application (2021-2032)

### 7.3 Europe Ketoreductases for Chiral Catalysis Market Size by Country

7.3.1 Europe Ketoreductases for Chiral Catalysis Consumption Value by Country (2021-2032)

7.3.2 Germany Ketoreductases for Chiral Catalysis Market Size and Forecast (2021-2032)

7.3.3 France Ketoreductases for Chiral Catalysis Market Size and Forecast (2021-2032)

7.3.4 United Kingdom Ketoreductases for Chiral Catalysis Market Size and Forecast (2021-2032)

7.3.5 Russia Ketoreductases for Chiral Catalysis Market Size and Forecast (2021-2032)

7.3.6 Italy Ketoreductases for Chiral Catalysis Market Size and Forecast (2021-2032)

## **8 ASIA-PACIFIC**

8.1 Asia-Pacific Ketoreductases for Chiral Catalysis Consumption Value by Type (2021-2032)

8.2 Asia-Pacific Ketoreductases for Chiral Catalysis Consumption Value by Application (2021-2032)

8.3 Asia-Pacific Ketoreductases for Chiral Catalysis Market Size by Region

8.3.1 Asia-Pacific Ketoreductases for Chiral Catalysis Consumption Value by Region (2021-2032)

8.3.2 China Ketoreductases for Chiral Catalysis Market Size and Forecast (2021-2032)

8.3.3 Japan Ketoreductases for Chiral Catalysis Market Size and Forecast (2021-2032)

8.3.4 South Korea Ketoreductases for Chiral Catalysis Market Size and Forecast (2021-2032)

8.3.5 India Ketoreductases for Chiral Catalysis Market Size and Forecast (2021-2032)

8.3.6 Southeast Asia Ketoreductases for Chiral Catalysis Market Size and Forecast (2021-2032)

8.3.7 Australia Ketoreductases for Chiral Catalysis Market Size and Forecast (2021-2032)

## **9 SOUTH AMERICA**

9.1 South America Ketoreductases for Chiral Catalysis Consumption Value by Type (2021-2032)

9.2 South America Ketoreductases for Chiral Catalysis Consumption Value by Application (2021-2032)

### 9.3 South America Ketoreductases for Chiral Catalysis Market Size by Country

9.3.1 South America Ketoreductases for Chiral Catalysis Consumption Value by Country (2021-2032)

9.3.2 Brazil Ketoreductases for Chiral Catalysis Market Size and Forecast (2021-2032)

9.3.3 Argentina Ketoreductases for Chiral Catalysis Market Size and Forecast (2021-2032)

## 10 MIDDLE EAST & AFRICA

10.1 Middle East & Africa Ketoreductases for Chiral Catalysis Consumption Value by Type (2021-2032)

10.2 Middle East & Africa Ketoreductases for Chiral Catalysis Consumption Value by Application (2021-2032)

10.3 Middle East & Africa Ketoreductases for Chiral Catalysis Market Size by Country

10.3.1 Middle East & Africa Ketoreductases for Chiral Catalysis Consumption Value by Country (2021-2032)

10.3.2 Turkey Ketoreductases for Chiral Catalysis Market Size and Forecast (2021-2032)

10.3.3 Saudi Arabia Ketoreductases for Chiral Catalysis Market Size and Forecast (2021-2032)

10.3.4 UAE Ketoreductases for Chiral Catalysis Market Size and Forecast (2021-2032)

## 11 MARKET DYNAMICS

11.1 Ketoreductases for Chiral Catalysis Market Drivers

11.2 Ketoreductases for Chiral Catalysis Market Restraints

11.3 Ketoreductases for Chiral Catalysis Trends Analysis

11.4 Porters Five Forces Analysis

11.4.1 Threat of New Entrants

11.4.2 Bargaining Power of Suppliers

11.4.3 Bargaining Power of Buyers

11.4.4 Threat of Substitutes

11.4.5 Competitive Rivalry

## 12 INDUSTRY CHAIN ANALYSIS

12.1 Ketoreductases for Chiral Catalysis Industry Chain

12.2 Ketoreductases for Chiral Catalysis Upstream Analysis

12.3 Ketoreductases for Chiral Catalysis Midstream Analysis

12.4 Ketoreductases for Chiral Catalysis Downstream Analysis

## **13 RESEARCH FINDINGS AND CONCLUSION**

## **14 APPENDIX**

14.1 Methodology

14.2 Research Process and Data Source

14.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. Global Ketoreductases for Chiral Catalysis Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Ketoreductases for Chiral Catalysis Consumption Value by Cofactor Dependence, (USD Million), 2021 & 2025 & 2032

Table 3. Global Ketoreductases for Chiral Catalysis Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 4. Global Ketoreductases for Chiral Catalysis Consumption Value by Region (2021-2026) & (USD Million)

Table 5. Global Ketoreductases for Chiral Catalysis Consumption Value by Region (2027-2032) & (USD Million)

Table 6. Codexis Company Information, Head Office, and Major Competitors

Table 7. Codexis Major Business

Table 8. Codexis Ketoreductases for Chiral Catalysis Product and Solutions

Table 9. Codexis Ketoreductases for Chiral Catalysis Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 10. Codexis Recent Developments and Future Plans

Table 11. Almac Group Company Information, Head Office, and Major Competitors

Table 12. Almac Group Major Business

Table 13. Almac Group Ketoreductases for Chiral Catalysis Product and Solutions

Table 14. Almac Group Ketoreductases for Chiral Catalysis Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 15. Almac Group Recent Developments and Future Plans

Table 16. Prozomix Company Information, Head Office, and Major Competitors

Table 17. Prozomix Major Business

Table 18. Prozomix Ketoreductases for Chiral Catalysis Product and Solutions

Table 19. Prozomix Ketoreductases for Chiral Catalysis Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 20. Johnson Matthey Company Information, Head Office, and Major Competitors

Table 21. Johnson Matthey Major Business

Table 22. Johnson Matthey Ketoreductases for Chiral Catalysis Product and Solutions

Table 23. Johnson Matthey Ketoreductases for Chiral Catalysis Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 24. Johnson Matthey Recent Developments and Future Plans

Table 25. Evoxx Technologies Company Information, Head Office, and Major Competitors

- Table 26. Evoxx Technologies Major Business
- Table 27. Evoxx Technologies Ketoreductases for Chiral Catalysis Product and Solutions
- Table 28. Evoxx Technologies Ketoreductases for Chiral Catalysis Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 29. Evoxx Technologies Recent Developments and Future Plans
- Table 30. Amano Enzyme Company Information, Head Office, and Major Competitors
- Table 31. Amano Enzyme Major Business
- Table 32. Amano Enzyme Ketoreductases for Chiral Catalysis Product and Solutions
- Table 33. Amano Enzyme Ketoreductases for Chiral Catalysis Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 34. Amano Enzyme Recent Developments and Future Plans
- Table 35. Zhejiang Syncozymes Bio-pharmaceutical Company Information, Head Office, and Major Competitors
- Table 36. Zhejiang Syncozymes Bio-pharmaceutical Major Business
- Table 37. Zhejiang Syncozymes Bio-pharmaceutical Ketoreductases for Chiral Catalysis Product and Solutions
- Table 38. Zhejiang Syncozymes Bio-pharmaceutical Ketoreductases for Chiral Catalysis Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 39. Zhejiang Syncozymes Bio-pharmaceutical Recent Developments and Future Plans
- Table 40. Asymchem Company Information, Head Office, and Major Competitors
- Table 41. Asymchem Major Business
- Table 42. Asymchem Ketoreductases for Chiral Catalysis Product and Solutions
- Table 43. Asymchem Ketoreductases for Chiral Catalysis Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 44. Asymchem Recent Developments and Future Plans
- Table 45. Global Ketoreductases for Chiral Catalysis Revenue (USD Million) by Players (2021-2026)
- Table 46. Global Ketoreductases for Chiral Catalysis Revenue Share by Players (2021-2026)
- Table 47. Breakdown of Ketoreductases for Chiral Catalysis by Company Type (Tier 1, Tier 2, and Tier 3)
- Table 48. Market Position of Players in Ketoreductases for Chiral Catalysis, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025
- Table 49. Head Office of Key Ketoreductases for Chiral Catalysis Players
- Table 50. Ketoreductases for Chiral Catalysis Market: Company Product Type Footprint
- Table 51. Ketoreductases for Chiral Catalysis Market: Company Product Application Footprint

Table 52. Ketoreductases for Chiral Catalysis New Market Entrants and Barriers to Market Entry

Table 53. Ketoreductases for Chiral Catalysis Mergers, Acquisition, Agreements, and Collaborations

Table 54. Global Ketoreductases for Chiral Catalysis Consumption Value (USD Million) by Type (2021-2026)

Table 55. Global Ketoreductases for Chiral Catalysis Consumption Value Share by Type (2021-2026)

Table 56. Global Ketoreductases for Chiral Catalysis Consumption Value Forecast by Type (2027-2032)

Table 57. Global Ketoreductases for Chiral Catalysis Consumption Value by Application (2021-2026)

Table 58. Global Ketoreductases for Chiral Catalysis Consumption Value Forecast by Application (2027-2032)

Table 59. North America Ketoreductases for Chiral Catalysis Consumption Value by Type (2021-2026) & (USD Million)

Table 60. North America Ketoreductases for Chiral Catalysis Consumption Value by Type (2027-2032) & (USD Million)

Table 61. North America Ketoreductases for Chiral Catalysis Consumption Value by Application (2021-2026) & (USD Million)

Table 62. North America Ketoreductases for Chiral Catalysis Consumption Value by Application (2027-2032) & (USD Million)

Table 63. North America Ketoreductases for Chiral Catalysis Consumption Value by Country (2021-2026) & (USD Million)

Table 64. North America Ketoreductases for Chiral Catalysis Consumption Value by Country (2027-2032) & (USD Million)

Table 65. Europe Ketoreductases for Chiral Catalysis Consumption Value by Type (2021-2026) & (USD Million)

Table 66. Europe Ketoreductases for Chiral Catalysis Consumption Value by Type (2027-2032) & (USD Million)

Table 67. Europe Ketoreductases for Chiral Catalysis Consumption Value by Application (2021-2026) & (USD Million)

Table 68. Europe Ketoreductases for Chiral Catalysis Consumption Value by Application (2027-2032) & (USD Million)

Table 69. Europe Ketoreductases for Chiral Catalysis Consumption Value by Country (2021-2026) & (USD Million)

Table 70. Europe Ketoreductases for Chiral Catalysis Consumption Value by Country (2027-2032) & (USD Million)

Table 71. Asia-Pacific Ketoreductases for Chiral Catalysis Consumption Value by Type

(2021-2026) & (USD Million)

Table 72. Asia-Pacific Ketoreductases for Chiral Catalysis Consumption Value by Type (2027-2032) & (USD Million)

Table 73. Asia-Pacific Ketoreductases for Chiral Catalysis Consumption Value by Application (2021-2026) & (USD Million)

Table 74. Asia-Pacific Ketoreductases for Chiral Catalysis Consumption Value by Application (2027-2032) & (USD Million)

Table 75. Asia-Pacific Ketoreductases for Chiral Catalysis Consumption Value by Region (2021-2026) & (USD Million)

Table 76. Asia-Pacific Ketoreductases for Chiral Catalysis Consumption Value by Region (2027-2032) & (USD Million)

Table 77. South America Ketoreductases for Chiral Catalysis Consumption Value by Type (2021-2026) & (USD Million)

Table 78. South America Ketoreductases for Chiral Catalysis Consumption Value by Type (2027-2032) & (USD Million)

Table 79. South America Ketoreductases for Chiral Catalysis Consumption Value by Application (2021-2026) & (USD Million)

Table 80. South America Ketoreductases for Chiral Catalysis Consumption Value by Application (2027-2032) & (USD Million)

Table 81. South America Ketoreductases for Chiral Catalysis Consumption Value by Country (2021-2026) & (USD Million)

Table 82. South America Ketoreductases for Chiral Catalysis Consumption Value by Country (2027-2032) & (USD Million)

Table 83. Middle East & Africa Ketoreductases for Chiral Catalysis Consumption Value by Type (2021-2026) & (USD Million)

Table 84. Middle East & Africa Ketoreductases for Chiral Catalysis Consumption Value by Type (2027-2032) & (USD Million)

Table 85. Middle East & Africa Ketoreductases for Chiral Catalysis Consumption Value by Application (2021-2026) & (USD Million)

Table 86. Middle East & Africa Ketoreductases for Chiral Catalysis Consumption Value by Application (2027-2032) & (USD Million)

Table 87. Middle East & Africa Ketoreductases for Chiral Catalysis Consumption Value by Country (2021-2026) & (USD Million)

Table 88. Middle East & Africa Ketoreductases for Chiral Catalysis Consumption Value by Country (2027-2032) & (USD Million)

Table 89. Global Key Players of Ketoreductases for Chiral Catalysis Upstream (Raw Materials)

Table 90. Global Ketoreductases for Chiral Catalysis Typical Customers

## List Of Figures

### LIST OF FIGURES

- Figure 1. Ketoreductases for Chiral Catalysis Picture
- Figure 2. Global Ketoreductases for Chiral Catalysis Consumption Value by Type, (USD Million), 2021 & 2025 & 2032
- Figure 3. Global Ketoreductases for Chiral Catalysis Consumption Value Market Share by Type in 2025
- Figure 4. Enzyme Screening Kits
- Figure 5. Individual Enzyme Preparations
- Figure 6. Other
- Figure 7. Global Ketoreductases for Chiral Catalysis Consumption Value by Cofactor Dependence, (USD Million), 2021 & 2025 & 2032
- Figure 8. Global Ketoreductases for Chiral Catalysis Consumption Value Market Share by Cofactor Dependence in 2025
- Figure 9. NAD-dependent Enzymes
- Figure 10. NADP-dependent Enzymes
- Figure 11. Other
- Figure 12. Global Ketoreductases for Chiral Catalysis Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 13. Ketoreductases for Chiral Catalysis Consumption Value Market Share by Application in 2025
- Figure 14. Pharmaceutical Intermediates Picture
- Figure 15. Fine Chemicals Picture
- Figure 16. Other Picture
- Figure 17. Global Ketoreductases for Chiral Catalysis Consumption Value, (USD Million): 2021 & 2025 & 2032
- Figure 18. Global Ketoreductases for Chiral Catalysis Consumption Value and Forecast (2021-2032) & (USD Million)
- Figure 19. Global Market Ketoreductases for Chiral Catalysis Consumption Value (USD Million) Comparison by Region (2021 VS 2025 VS 2032)
- Figure 20. Global Ketoreductases for Chiral Catalysis Consumption Value Market Share by Region (2021-2032)
- Figure 21. Global Ketoreductases for Chiral Catalysis Consumption Value Market Share by Region in 2025
- Figure 22. North America Ketoreductases for Chiral Catalysis Consumption Value (2021-2032) & (USD Million)
- Figure 23. Europe Ketoreductases for Chiral Catalysis Consumption Value (2021-2032)

& (USD Million)

Figure 24. Asia-Pacific Ketoreductases for Chiral Catalysis Consumption Value (2021-2032) & (USD Million)

Figure 25. South America Ketoreductases for Chiral Catalysis Consumption Value (2021-2032) & (USD Million)

Figure 26. Middle East & Africa Ketoreductases for Chiral Catalysis Consumption Value (2021-2032) & (USD Million)

Figure 27. Company Three Recent Developments and Future Plans

Figure 28. Global Ketoreductases for Chiral Catalysis Revenue Share by Players in 2025

Figure 29. Ketoreductases for Chiral Catalysis Market Share by Company Type (Tier 1, Tier 2, and Tier 3) in 2025

Figure 30. Market Share of Ketoreductases for Chiral Catalysis by Player Revenue in 2025

Figure 31. Top 3 Ketoreductases for Chiral Catalysis Players Market Share in 2025

Figure 32. Top 6 Ketoreductases for Chiral Catalysis Players Market Share in 2025

Figure 33. Global Ketoreductases for Chiral Catalysis Consumption Value Share by Type (2021-2026)

Figure 34. Global Ketoreductases for Chiral Catalysis Market Share Forecast by Type (2027-2032)

Figure 35. Global Ketoreductases for Chiral Catalysis Consumption Value Share by Application (2021-2026)

Figure 36. Global Ketoreductases for Chiral Catalysis Market Share Forecast by Application (2027-2032)

Figure 37. North America Ketoreductases for Chiral Catalysis Consumption Value Market Share by Type (2021-2032)

Figure 38. North America Ketoreductases for Chiral Catalysis Consumption Value Market Share by Application (2021-2032)

Figure 39. North America Ketoreductases for Chiral Catalysis Consumption Value Market Share by Country (2021-2032)

Figure 40. United States Ketoreductases for Chiral Catalysis Consumption Value (2021-2032) & (USD Million)

Figure 41. Canada Ketoreductases for Chiral Catalysis Consumption Value (2021-2032) & (USD Million)

Figure 42. Mexico Ketoreductases for Chiral Catalysis Consumption Value (2021-2032) & (USD Million)

Figure 43. Europe Ketoreductases for Chiral Catalysis Consumption Value Market Share by Type (2021-2032)

Figure 44. Europe Ketoreductases for Chiral Catalysis Consumption Value Market

Share by Application (2021-2032)

Figure 45. Europe Ketoreductases for Chiral Catalysis Consumption Value Market

Share by Country (2021-2032)

Figure 46. Germany Ketoreductases for Chiral Catalysis Consumption Value (2021-2032) & (USD Million)

Figure 47. France Ketoreductases for Chiral Catalysis Consumption Value (2021-2032) & (USD Million)

Figure 48. United Kingdom Ketoreductases for Chiral Catalysis Consumption Value (2021-2032) & (USD Million)

Figure 49. Russia Ketoreductases for Chiral Catalysis Consumption Value (2021-2032) & (USD Million)

Figure 50. Italy Ketoreductases for Chiral Catalysis Consumption Value (2021-2032) & (USD Million)

Figure 51. Asia-Pacific Ketoreductases for Chiral Catalysis Consumption Value Market Share by Type (2021-2032)

Figure 52. Asia-Pacific Ketoreductases for Chiral Catalysis Consumption Value Market Share by Application (2021-2032)

Figure 53. Asia-Pacific Ketoreductases for Chiral Catalysis Consumption Value Market Share by Region (2021-2032)

Figure 54. China Ketoreductases for Chiral Catalysis Consumption Value (2021-2032) & (USD Million)

Figure 55. Japan Ketoreductases for Chiral Catalysis Consumption Value (2021-2032) & (USD Million)

Figure 56. South Korea Ketoreductases for Chiral Catalysis Consumption Value (2021-2032) & (USD Million)

Figure 57. India Ketoreductases for Chiral Catalysis Consumption Value (2021-2032) & (USD Million)

Figure 58. Southeast Asia Ketoreductases for Chiral Catalysis Consumption Value (2021-2032) & (USD Million)

Figure 59. Australia Ketoreductases for Chiral Catalysis Consumption Value (2021-2032) & (USD Million)

Figure 60. South America Ketoreductases for Chiral Catalysis Consumption Value Market Share by Type (2021-2032)

Figure 61. South America Ketoreductases for Chiral Catalysis Consumption Value Market Share by Application (2021-2032)

Figure 62. South America Ketoreductases for Chiral Catalysis Consumption Value Market Share by Country (2021-2032)

Figure 63. Brazil Ketoreductases for Chiral Catalysis Consumption Value (2021-2032) & (USD Million)

Figure 64. Argentina Ketoreductases for Chiral Catalysis Consumption Value (2021-2032) & (USD Million)

Figure 65. Middle East & Africa Ketoreductases for Chiral Catalysis Consumption Value Market Share by Type (2021-2032)

Figure 66. Middle East & Africa Ketoreductases for Chiral Catalysis Consumption Value Market Share by Application (2021-2032)

Figure 67. Middle East & Africa Ketoreductases for Chiral Catalysis Consumption Value Market Share by Country (2021-2032)

Figure 68. Turkey Ketoreductases for Chiral Catalysis Consumption Value (2021-2032) & (USD Million)

Figure 69. Saudi Arabia Ketoreductases for Chiral Catalysis Consumption Value (2021-2032) & (USD Million)

Figure 70. UAE Ketoreductases for Chiral Catalysis Consumption Value (2021-2032) & (USD Million)

Figure 71. Ketoreductases for Chiral Catalysis Market Drivers

Figure 72. Ketoreductases for Chiral Catalysis Market Restraints

Figure 73. Ketoreductases for Chiral Catalysis Market Trends

Figure 74. Porters Five Forces Analysis

Figure 75. Ketoreductases for Chiral Catalysis Industrial Chain

Figure 76. Methodology

Figure 77. Research Process and Data Source

## I would like to order

Product name: Global Ketoreductases for Chiral Catalysis Market 2026 by Company, Regions, Type and Application, Forecast to 2032

Product link: <https://marketpublishers.com/r/G09FB7D7704FEN.html>

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

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

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G09FB7D7704FEN.html>