

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

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## Abstracts

According to our (Global Info Research) latest study, the global Alcohol Dehydrogenases for Chiral Catalysis market size was valued at US\$ 143 million in 2025 and is forecast to a readjusted size of US\$ 223 million by 2032 with a CAGR of 6.6% during review period.

Alcohol dehydrogenases for chiral catalysis are oxidoreductase enzymes used in stereoselective synthesis, typically operating with NAD(H)- or NADP(H)-based cofactor systems. They catalyze reversible transformations among alcohols, aldehydes, and ketones, and are particularly valuable in chiral catalysis for the enantioselective reduction of prochiral ketones into optically active chiral alcohols. Owing to their strong substrate recognition, stereocontrol, and compatibility with greener synthetic routes, these enzymes are widely applied in the preparation of pharmaceutical intermediates, key chiral building blocks for active pharmaceutical ingredients, fine chemicals, and specialty chemicals. Their upstream inputs mainly include enzyme gene resources, engineered microbial strains, fermentation media, expression systems, cofactors and cofactor-regeneration systems, 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. The overall industry gross margin for alcohol dehydrogenases used in chiral catalysis is conservatively estimated at approximately 45%–60%.

Alcohol dehydrogenases for chiral catalysis are moving from laboratory validation toward broader industrial adoption, especially in pharmaceutical intermediates, key chiral building blocks for active pharmaceutical ingredients, and high-value fine chemical synthesis. Compared with conventional chemical reduction routes, they offer

strong advantages in stereoselectivity, milder operating conditions, and greener manufacturing compatibility. The supply structure is also becoming more diversified, with standardized enzyme preparations, screening kits, customized enzyme engineering, and scale-up services developing in parallel. Customer demand is gradually shifting from isolated enzyme procurement toward integrated biocatalytic solutions that can be directly embedded into synthetic process development.

Future market development will increasingly depend on enzyme engineering, broader substrate compatibility, and the industrial realization of more challenging asymmetric reductions. Recent research and commercial practice indicate that alcohol dehydrogenases are becoming more capable of handling structurally complex ketones, sterically hindered substrates, and products requiring stricter stereochemical control. Protein engineering, directed evolution, and structure-guided optimization are expected to further improve catalytic activity, selectivity, and robustness. As enzyme libraries expand and screening efficiency improves, alcohol dehydrogenases are likely to enter additional reaction spaces that previously relied more heavily on metal catalysis or longer synthetic sequences.

The main growth drivers come from sustained demand for greener synthetic routes, lower by-product generation, and higher stereochemical purity in pharmaceuticals and fine chemicals. At the same time, the maturation of supporting technologies, including cofactor recycling, enzyme immobilization, continuous processing, and multi-enzyme cascade design, is making alcohol dehydrogenases more practical in industrial manufacturing. Competitive advantage will increasingly rest on a supplier's ability to deliver an end-to-end technical package, covering rapid enzyme screening, cofactor-system design, process robustness, and successful transfer from laboratory development to pilot and manufacturing stages.

Even so, several barriers remain. Alcohol dehydrogenase performance is often highly sensitive to substrate structure, cofactor preference, solvent environment, and reaction equilibrium, which means many projects still require case-by-case screening and enzyme optimization rather than straightforward standardization. Cofactor cost, recycling efficiency, stability under high substrate loading, and redox balance control continue to affect scale-up economics. Over time, market share is likely to become more concentrated among companies with deeper protein-engineering capabilities, stronger process-development experience, and richer customer project databases, while business models relying only on generic enzyme sales may face increasing pressure.

This report is a detailed and comprehensive analysis for global Alcohol Dehydrogenases 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 Alcohol Dehydrogenases for Chiral Catalysis market size and forecasts, in consumption value (\$ Million), 2021-2032

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

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

Global Alcohol Dehydrogenases 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 Alcohol Dehydrogenases 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 Alcohol Dehydrogenases 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 Biopharmaceutical, Asymchem, etc.

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

### Market segmentation

Alcohol Dehydrogenases 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 Alcohol Dehydrogenases for Chiral Catalysis product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Alcohol Dehydrogenases for Chiral Catalysis, with revenue, gross margin, and global market share of Alcohol Dehydrogenases for Chiral Catalysis from 2021 to 2026.

Chapter 3, the Alcohol Dehydrogenases 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 Alcohol Dehydrogenases 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 Alcohol Dehydrogenases for Chiral Catalysis.

Chapter 13, to describe Alcohol Dehydrogenases 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 Alcohol Dehydrogenases for Chiral Catalysis by Type

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

1.3.2 Global Alcohol Dehydrogenases 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 Alcohol Dehydrogenases for Chiral Catalysis by Cofactor Dependence

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

1.4.2 Global Alcohol Dehydrogenases 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 Alcohol Dehydrogenases for Chiral Catalysis Market by Application

1.5.1 Overview: Global Alcohol Dehydrogenases 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 Alcohol Dehydrogenases for Chiral Catalysis Market Size & Forecast

1.7 Global Alcohol Dehydrogenases for Chiral Catalysis Market Size and Forecast by Region

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

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

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

1.7.4 Europe Alcohol Dehydrogenases for Chiral Catalysis Market Size and Prospect

(2021-2032)

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

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

1.7.7 Middle East & Africa Alcohol Dehydrogenases 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 Alcohol Dehydrogenases for Chiral Catalysis Product and Solutions

2.1.4 Codexis Alcohol Dehydrogenases 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 Alcohol Dehydrogenases for Chiral Catalysis Product and Solutions

2.2.4 Almac Group Alcohol Dehydrogenases 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 Alcohol Dehydrogenases for Chiral Catalysis Product and Solutions

2.3.4 Prozomix Alcohol Dehydrogenases 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 Alcohol Dehydrogenases for Chiral Catalysis Product and Solutions

2.4.4 Johnson Matthey Alcohol Dehydrogenases 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 Alcohol Dehydrogenases for Chiral Catalysis Product and Solutions
  - 2.5.4 Evoxx Technologies Alcohol Dehydrogenases 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 Alcohol Dehydrogenases for Chiral Catalysis Product and Solutions
  - 2.6.4 Amano Enzyme Alcohol Dehydrogenases 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 Alcohol Dehydrogenases for Chiral Catalysis Product and Solutions
  - 2.7.4 Zhejiang Syncozymes Bio-pharmaceutical Alcohol Dehydrogenases 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 Alcohol Dehydrogenases for Chiral Catalysis Product and Solutions
  - 2.8.4 Asymchem Alcohol Dehydrogenases 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 Alcohol Dehydrogenases for Chiral Catalysis Revenue and Share by Players (2021-2026)
- 3.2 Market Share Analysis (2025)

- 3.2.1 Market Share of Alcohol Dehydrogenases for Chiral Catalysis by Company Revenue
- 3.2.2 Top 3 Alcohol Dehydrogenases for Chiral Catalysis Players Market Share in 2025
- 3.2.3 Top 6 Alcohol Dehydrogenases for Chiral Catalysis Players Market Share in 2025
- 3.3 Alcohol Dehydrogenases for Chiral Catalysis Market: Overall Company Footprint Analysis
  - 3.3.1 Alcohol Dehydrogenases for Chiral Catalysis Market: Region Footprint
  - 3.3.2 Alcohol Dehydrogenases for Chiral Catalysis Market: Company Product Type Footprint
  - 3.3.3 Alcohol Dehydrogenases 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 Alcohol Dehydrogenases for Chiral Catalysis Consumption Value and Market Share by Type (2021-2026)
- 4.2 Global Alcohol Dehydrogenases for Chiral Catalysis Market Forecast by Type (2027-2032)

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

- 5.1 Global Alcohol Dehydrogenases for Chiral Catalysis Consumption Value Market Share by Application (2021-2026)
- 5.2 Global Alcohol Dehydrogenases for Chiral Catalysis Market Forecast by Application (2027-2032)

## **6 NORTH AMERICA**

- 6.1 North America Alcohol Dehydrogenases for Chiral Catalysis Consumption Value by Type (2021-2032)
- 6.2 North America Alcohol Dehydrogenases for Chiral Catalysis Market Size by Application (2021-2032)
- 6.3 North America Alcohol Dehydrogenases for Chiral Catalysis Market Size by Country
  - 6.3.1 North America Alcohol Dehydrogenases for Chiral Catalysis Consumption Value by Country (2021-2032)

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

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

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

## **7 EUROPE**

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

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

7.3 Europe Alcohol Dehydrogenases for Chiral Catalysis Market Size by Country

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

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

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

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

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

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

## **8 ASIA-PACIFIC**

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

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

8.3 Asia-Pacific Alcohol Dehydrogenases for Chiral Catalysis Market Size by Region

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

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

8.3.3 Japan Alcohol Dehydrogenases for Chiral Catalysis Market Size and Forecast

(2021-2032)

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

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

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

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

## **9 SOUTH AMERICA**

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

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

9.3 South America Alcohol Dehydrogenases for Chiral Catalysis Market Size by Country

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

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

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

## **10 MIDDLE EAST & AFRICA**

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

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

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

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

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

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

10.3.4 UAE Alcohol Dehydrogenases for Chiral Catalysis Market Size and Forecast

(2021-2032)

## **11 MARKET DYNAMICS**

- 11.1 Alcohol Dehydrogenases for Chiral Catalysis Market Drivers
- 11.2 Alcohol Dehydrogenases for Chiral Catalysis Market Restraints
- 11.3 Alcohol Dehydrogenases 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 Alcohol Dehydrogenases for Chiral Catalysis Industry Chain
- 12.2 Alcohol Dehydrogenases for Chiral Catalysis Upstream Analysis
- 12.3 Alcohol Dehydrogenases for Chiral Catalysis Midstream Analysis
- 12.4 Alcohol Dehydrogenases 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 Alcohol Dehydrogenases for Chiral Catalysis Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

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

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

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

Table 5. Global Alcohol Dehydrogenases 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 Alcohol Dehydrogenases for Chiral Catalysis Product and Solutions

Table 9. Codexis Alcohol Dehydrogenases 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 Alcohol Dehydrogenases for Chiral Catalysis Product and Solutions

Table 14. Almac Group Alcohol Dehydrogenases 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 Alcohol Dehydrogenases for Chiral Catalysis Product and Solutions

Table 19. Prozomix Alcohol Dehydrogenases 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 Alcohol Dehydrogenases for Chiral Catalysis Product and Solutions

Table 23. Johnson Matthey Alcohol Dehydrogenases 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 Alcohol Dehydrogenases for Chiral Catalysis Product and Solutions
- Table 28. Evoxx Technologies Alcohol Dehydrogenases 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 Alcohol Dehydrogenases for Chiral Catalysis Product and Solutions
- Table 33. Amano Enzyme Alcohol Dehydrogenases 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 Alcohol Dehydrogenases for Chiral Catalysis Product and Solutions
- Table 38. Zhejiang Syncozymes Bio-pharmaceutical Alcohol Dehydrogenases 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 Alcohol Dehydrogenases for Chiral Catalysis Product and Solutions
- Table 43. Asymchem Alcohol Dehydrogenases for Chiral Catalysis Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 44. Asymchem Recent Developments and Future Plans
- Table 45. Global Alcohol Dehydrogenases for Chiral Catalysis Revenue (USD Million) by Players (2021-2026)
- Table 46. Global Alcohol Dehydrogenases for Chiral Catalysis Revenue Share by Players (2021-2026)
- Table 47. Breakdown of Alcohol Dehydrogenases for Chiral Catalysis by Company Type (Tier 1, Tier 2, and Tier 3)
- Table 48. Market Position of Players in Alcohol Dehydrogenases for Chiral Catalysis, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 49. Head Office of Key Alcohol Dehydrogenases for Chiral Catalysis Players

Table 50. Alcohol Dehydrogenases for Chiral Catalysis Market: Company Product Type Footprint

Table 51. Alcohol Dehydrogenases for Chiral Catalysis Market: Company Product Application Footprint

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Table 71. Asia-Pacific Alcohol Dehydrogenases for Chiral Catalysis Consumption Value by Type (2021-2026) & (USD Million)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Table 88. Middle East & Africa Alcohol Dehydrogenases for Chiral Catalysis

Consumption Value by Country (2027-2032) & (USD Million)

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

Table 90. Global Alcohol Dehydrogenases for Chiral Catalysis Typical Customers

## List Of Figures

### LIST OF FIGURES

- Figure 1. Alcohol Dehydrogenases for Chiral Catalysis Picture
- Figure 2. Global Alcohol Dehydrogenases for Chiral Catalysis Consumption Value by Type, (USD Million), 2021 & 2025 & 2032
- Figure 3. Global Alcohol Dehydrogenases 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 Alcohol Dehydrogenases for Chiral Catalysis Consumption Value by Cofactor Dependence, (USD Million), 2021 & 2025 & 2032
- Figure 8. Global Alcohol Dehydrogenases 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 Alcohol Dehydrogenases for Chiral Catalysis Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 13. Alcohol Dehydrogenases 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 Alcohol Dehydrogenases for Chiral Catalysis Consumption Value, (USD Million): 2021 & 2025 & 2032
- Figure 18. Global Alcohol Dehydrogenases for Chiral Catalysis Consumption Value and Forecast (2021-2032) & (USD Million)
- Figure 19. Global Market Alcohol Dehydrogenases for Chiral Catalysis Consumption Value (USD Million) Comparison by Region (2021 VS 2025 VS 2032)
- Figure 20. Global Alcohol Dehydrogenases for Chiral Catalysis Consumption Value Market Share by Region (2021-2032)
- Figure 21. Global Alcohol Dehydrogenases for Chiral Catalysis Consumption Value Market Share by Region in 2025
- Figure 22. North America Alcohol Dehydrogenases for Chiral Catalysis Consumption Value (2021-2032) & (USD Million)
- Figure 23. Europe Alcohol Dehydrogenases for Chiral Catalysis Consumption Value

(2021-2032) & (USD Million)

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

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

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

Figure 27. Company Three Recent Developments and Future Plans

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Figure 43. Europe Alcohol Dehydrogenases for Chiral Catalysis Consumption Value

Market Share by Type (2021-2032)

Figure 44. Europe Alcohol Dehydrogenases for Chiral Catalysis Consumption Value Market Share by Application (2021-2032)

Figure 45. Europe Alcohol Dehydrogenases for Chiral Catalysis Consumption Value Market Share by Country (2021-2032)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Figure 71. Alcohol Dehydrogenases for Chiral Catalysis Market Drivers

Figure 72. Alcohol Dehydrogenases for Chiral Catalysis Market Restraints

Figure 73. Alcohol Dehydrogenases for Chiral Catalysis Market Trends

Figure 74. Porters Five Forces Analysis

Figure 75. Alcohol Dehydrogenases for Chiral Catalysis Industrial Chain

Figure 76. Methodology

Figure 77. Research Process and Data Source

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