

Global Asymmetric catalysts Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G8033B24C080EN.html>

Date: June 2026

Pages: 127

Price: US\$ 4,480.00 (Single User License)

ID: G8033B24C080EN

Abstracts

The global Asymmetric catalysts market size is expected to reach \$ 3694 million by 2032, rising at a market growth of 11.7% CAGR during the forecast period (2026-2032).

Asymmetric catalysts are catalytic systems capable of inducing the formation of enantiomerically enriched or single-enantiomer products in chemical or biological reactions, including metal–ligand catalytic systems (such as chiral diphosphine ligands coordinated with transition metals) and biocatalytic systems (such as engineered enzymes), fundamentally enabling stereochemical control of reaction pathways and serving as the core technology for industrial chiral synthesis.

Asymmetric catalysts function by creating chiral environments to enable enantioselective reactions, encompassing both metal–ligand systems (including ligands and precious metal catalytic components) and engineered enzyme systems; within chemical catalysis, chiral diphosphine-based systems dominate with approximately 70% value share, while in biocatalysis, ketoreductases and transaminases account for about 75% of the enzyme market. Pricing follows a dual-track structure, with chemical catalysts (including metal components) averaging around \$20,000/kg and biocatalysts around \$600/kg, resulting in a blended gross margin of approximately 58% (about 65% for chemical catalysis and 55% for biocatalysis). Demand is highly concentrated in pharmaceuticals, accounting for about 75%, primarily for enantiopure API synthesis and CDMO process development, with the remaining ~25% in agrochemicals and fine chemicals. The upstream includes high-purity organophosphorus intermediates, precious metals (Rh, Ru, Ir), and fermentation systems, the midstream focuses on ligand design and enzyme engineering (directed evolution), and downstream integration occurs deeply within pharmaceutical and CDMO production processes. The industry exhibits a three-layer structure of structural control (ligands/enzymes), technology

platforms (metal catalysis/enzyme engineering), and process integration (CDMOs). Overall, the industry is in a phase of mature deepening alongside structural substitution, driven by increasing molecular complexity in innovative drugs and the transition toward green chemistry, with biocatalysis steadily replacing certain hydrogenation and reduction pathways, while chemical routes such as asymmetric coupling remain irreplaceable; key uncertainties lie in route selection dynamics and the expansion of substrate scope in biocatalysis.

This report studies the global Asymmetric catalysts production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Asymmetric catalysts and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Asymmetric catalysts that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Asymmetric catalysts total production and demand, 2021-2032, (Tons)

Global Asymmetric catalysts total production value, 2021-2032, (USD Million)

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

Global Asymmetric catalysts consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Asymmetric catalysts domestic production, consumption, key domestic manufacturers and share

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

Global Asymmetric catalysts production by Technology, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

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

This report profiles key players in the global Asymmetric catalysts market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Takasago International, Solvias, Johnson Matthey, BASF, Umicore, Strem Chemicals, Novozymes, DSM-Firmenich, Codexis, Amano Enzyme, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Asymmetric catalysts market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by manufacturer, by Technology, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Asymmetric catalysts Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Asymmetric catalysts Market, Segmentation by Technology:

Chemical Asymmetric Catalysis

Biocatalysis

Global Asymmetric catalysts Market, Segmentation by Catalyst Type:

Diphosphine Catalysts

Other Chiral Ligands

Engineered Enzymes

Immobilized Enzymes

Global Asymmetric catalysts Market, Segmentation by Application:

Pharmaceuticals

Agrochemicals

Fine Chemicals

Companies Profiled:

Takasago International

Solvias

Johnson Matthey

BASF

Umicore

Strem Chemicals

Novozymes

DSM-Firmenich

Codexis

Amano Enzyme

Prozomix

Enzymaster

WuXi AppTec

Asymchem

Lonza

Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

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

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Asymmetric catalysts Production Value by Manufacturer (2021-2026)
- 3.2 World Asymmetric catalysts Production by Manufacturer (2021-2026)
- 3.3 World Asymmetric catalysts Average Price by Manufacturer (2021-2026)
- 3.4 Asymmetric catalysts Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Asymmetric catalysts Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Asymmetric catalysts in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Asymmetric catalysts in 2025
- 3.6 Asymmetric catalysts Market: Overall Company Footprint Analysis
 - 3.6.1 Asymmetric catalysts Market: Region Footprint
 - 3.6.2 Asymmetric catalysts Market: Company Product Type Footprint
 - 3.6.3 Asymmetric catalysts Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Asymmetric catalysts Production Value Comparison
 - 4.1.1 United States VS China: Asymmetric catalysts Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Asymmetric catalysts Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Asymmetric catalysts Production Comparison
 - 4.2.1 United States VS China: Asymmetric catalysts Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Asymmetric catalysts Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Asymmetric catalysts Consumption Comparison
 - 4.3.1 United States VS China: Asymmetric catalysts Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Asymmetric catalysts Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Asymmetric catalysts Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based Asymmetric catalysts Manufacturers, Headquarters and

Production Site (States, Country)

4.4.2 United States Based Manufacturers Asymmetric catalysts Production Value (2021-2026)

4.4.3 United States Based Manufacturers Asymmetric catalysts Production (2021-2026)

4.5 China Based Asymmetric catalysts Manufacturers and Market Share

4.5.1 China Based Asymmetric catalysts Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Asymmetric catalysts Production Value (2021-2026)

4.5.3 China Based Manufacturers Asymmetric catalysts Production (2021-2026)

4.6 Rest of World Based Asymmetric catalysts Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Asymmetric catalysts Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Asymmetric catalysts Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Asymmetric catalysts Production (2021-2026)

5 MARKET ANALYSIS BY TECHNOLOGY

5.1 World Asymmetric catalysts Market Size Overview by Technology: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Technology

5.2.1 Chemical Asymmetric Catalysis

5.2.2 Biocatalysis

5.3 Market Segment by Technology

5.3.1 World Asymmetric catalysts Production by Technology (2021-2032)

5.3.2 World Asymmetric catalysts Production Value by Technology (2021-2032)

5.3.3 World Asymmetric catalysts Average Price by Technology (2021-2032)

6 MARKET ANALYSIS BY CATALYST TYPE

6.1 World Asymmetric catalysts Market Size Overview by Catalyst Type: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Catalyst Type

6.2.1 Diphosphine Catalysts

6.2.2 Other Chiral Ligands

6.2.3 Engineered Enzymes

6.2.4 Immobilized Enzymes

6.3 Market Segment by Catalyst Type

6.3.1 World Asymmetric catalysts Production by Catalyst Type (2021-2032)

6.3.2 World Asymmetric catalysts Production Value by Catalyst Type (2021-2032)

6.3.3 World Asymmetric catalysts Average Price by Catalyst Type (2021-2032)

7 MARKET ANALYSIS BY APPLICATION

7.1 World Asymmetric catalysts Market Size Overview by Application: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Application

7.2.1 Pharmaceuticals

7.2.2 Agrochemicals

7.2.3 Fine Chemicals

7.3 Market Segment by Application

7.3.1 World Asymmetric catalysts Production by Application (2021-2032)

7.3.2 World Asymmetric catalysts Production Value by Application (2021-2032)

7.3.3 World Asymmetric catalysts Average Price by Application (2021-2032)

8 COMPANY PROFILES

8.1 Takasago International

8.1.1 Takasago International Details

8.1.2 Takasago International Major Business

8.1.3 Takasago International Asymmetric catalysts Product and Services

8.1.4 Takasago International Asymmetric catalysts Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.1.5 Takasago International Recent Developments/Updates

8.1.6 Takasago International Competitive Strengths & Weaknesses

8.2 Solvias

8.2.1 Solvias Details

8.2.2 Solvias Major Business

8.2.3 Solvias Asymmetric catalysts Product and Services

8.2.4 Solvias Asymmetric catalysts Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.2.5 Solvias Recent Developments/Updates

8.2.6 Solvias Competitive Strengths & Weaknesses

8.3 Johnson Matthey

8.3.1 Johnson Matthey Details

- 8.3.2 Johnson Matthey Major Business
- 8.3.3 Johnson Matthey Asymmetric catalysts Product and Services
- 8.3.4 Johnson Matthey Asymmetric catalysts Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 8.3.5 Johnson Matthey Recent Developments/Updates
- 8.3.6 Johnson Matthey Competitive Strengths & Weaknesses
- 8.4 BASF
 - 8.4.1 BASF Details
 - 8.4.2 BASF Major Business
 - 8.4.3 BASF Asymmetric catalysts Product and Services
 - 8.4.4 BASF Asymmetric catalysts Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.4.5 BASF Recent Developments/Updates
 - 8.4.6 BASF Competitive Strengths & Weaknesses
- 8.5 Umicore
 - 8.5.1 Umicore Details
 - 8.5.2 Umicore Major Business
 - 8.5.3 Umicore Asymmetric catalysts Product and Services
 - 8.5.4 Umicore Asymmetric catalysts Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.5.5 Umicore Recent Developments/Updates
 - 8.5.6 Umicore Competitive Strengths & Weaknesses
- 8.6 Strem Chemicals
 - 8.6.1 Strem Chemicals Details
 - 8.6.2 Strem Chemicals Major Business
 - 8.6.3 Strem Chemicals Asymmetric catalysts Product and Services
 - 8.6.4 Strem Chemicals Asymmetric catalysts Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.6.5 Strem Chemicals Recent Developments/Updates
 - 8.6.6 Strem Chemicals Competitive Strengths & Weaknesses
- 8.7 Novozymes
 - 8.7.1 Novozymes Details
 - 8.7.2 Novozymes Major Business
 - 8.7.3 Novozymes Asymmetric catalysts Product and Services
 - 8.7.4 Novozymes Asymmetric catalysts Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.7.5 Novozymes Recent Developments/Updates
 - 8.7.6 Novozymes Competitive Strengths & Weaknesses
- 8.8 DSM-Firmenich

- 8.8.1 DSM-Firmenich Details
- 8.8.2 DSM-Firmenich Major Business
- 8.8.3 DSM-Firmenich Asymmetric catalysts Product and Services
- 8.8.4 DSM-Firmenich Asymmetric catalysts Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 8.8.5 DSM-Firmenich Recent Developments/Updates
- 8.8.6 DSM-Firmenich Competitive Strengths & Weaknesses
- 8.9 Codexis
 - 8.9.1 Codexis Details
 - 8.9.2 Codexis Major Business
 - 8.9.3 Codexis Asymmetric catalysts Product and Services
 - 8.9.4 Codexis Asymmetric catalysts Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.9.5 Codexis Recent Developments/Updates
 - 8.9.6 Codexis Competitive Strengths & Weaknesses
- 8.10 Amano Enzyme
 - 8.10.1 Amano Enzyme Details
 - 8.10.2 Amano Enzyme Major Business
 - 8.10.3 Amano Enzyme Asymmetric catalysts Product and Services
 - 8.10.4 Amano Enzyme Asymmetric catalysts Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.10.5 Amano Enzyme Recent Developments/Updates
 - 8.10.6 Amano Enzyme Competitive Strengths & Weaknesses
- 8.11 Prozomix
 - 8.11.1 Prozomix Details
 - 8.11.2 Prozomix Major Business
 - 8.11.3 Prozomix Asymmetric catalysts Product and Services
 - 8.11.4 Prozomix Asymmetric catalysts Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.11.5 Prozomix Recent Developments/Updates
 - 8.11.6 Prozomix Competitive Strengths & Weaknesses
- 8.12 Enzymaster
 - 8.12.1 Enzymaster Details
 - 8.12.2 Enzymaster Major Business
 - 8.12.3 Enzymaster Asymmetric catalysts Product and Services
 - 8.12.4 Enzymaster Asymmetric catalysts Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.12.5 Enzymaster Recent Developments/Updates
 - 8.12.6 Enzymaster Competitive Strengths & Weaknesses

8.13 WuXi AppTec

8.13.1 WuXi AppTec Details

8.13.2 WuXi AppTec Major Business

8.13.3 WuXi AppTec Asymmetric catalysts Product and Services

8.13.4 WuXi AppTec Asymmetric catalysts Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.13.5 WuXi AppTec Recent Developments/Updates

8.13.6 WuXi AppTec Competitive Strengths & Weaknesses

8.14 Asymchem

8.14.1 Asymchem Details

8.14.2 Asymchem Major Business

8.14.3 Asymchem Asymmetric catalysts Product and Services

8.14.4 Asymchem Asymmetric catalysts Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.14.5 Asymchem Recent Developments/Updates

8.14.6 Asymchem Competitive Strengths & Weaknesses

8.15 Lonza

8.15.1 Lonza Details

8.15.2 Lonza Major Business

8.15.3 Lonza Asymmetric catalysts Product and Services

8.15.4 Lonza Asymmetric catalysts Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.15.5 Lonza Recent Developments/Updates

8.15.6 Lonza Competitive Strengths & Weaknesses

9 INDUSTRY CHAIN ANALYSIS

9.1 Asymmetric catalysts Industry Chain

9.2 Asymmetric catalysts Upstream Analysis

9.2.1 Asymmetric catalysts Core Raw Materials

9.2.2 Main Manufacturers of Asymmetric catalysts Core Raw Materials

9.3 Midstream Analysis

9.4 Downstream Analysis

9.5 Asymmetric catalysts Production Mode

9.6 Asymmetric catalysts Procurement Model

9.7 Asymmetric catalysts Industry Sales Model and Sales Channels

9.7.1 Asymmetric catalysts Sales Model

9.7.2 Asymmetric catalysts Typical Distributors

10 RESEARCH FINDINGS AND CONCLUSION

11 APPENDIX

11.1 Methodology

11.2 Research Process and Data Source

11.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Asymmetric catalysts Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Asymmetric catalysts Production Value by Region (2021-2026) & (USD Million)

Table 3. World Asymmetric catalysts Production Value by Region (2027-2032) & (USD Million)

Table 4. World Asymmetric catalysts Production Value Market Share by Region (2021-2026)

Table 5. World Asymmetric catalysts Production Value Market Share by Region (2027-2032)

Table 6. World Asymmetric catalysts Production by Region (2021-2026) & (Tons)

Table 7. World Asymmetric catalysts Production by Region (2027-2032) & (Tons)

Table 8. World Asymmetric catalysts Production Market Share by Region (2021-2026)

Table 9. World Asymmetric catalysts Production Market Share by Region (2027-2032)

Table 10. World Asymmetric catalysts Average Price by Region (2021-2026) & (US\$/Ton)

Table 11. World Asymmetric catalysts Average Price by Region (2027-2032) & (US\$/Ton)

Table 12. Asymmetric catalysts Major Market Trends

Table 13. World Asymmetric catalysts Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Tons)

Table 14. World Asymmetric catalysts Consumption by Region (2021-2026) & (Tons)

Table 15. World Asymmetric catalysts Consumption Forecast by Region (2027-2032) & (Tons)

Table 16. World Asymmetric catalysts Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Asymmetric catalysts Producers in 2025

Table 18. World Asymmetric catalysts Production by Manufacturer (2021-2026) & (Tons)

Table 19. Production Market Share of Key Asymmetric catalysts Producers in 2025

Table 20. World Asymmetric catalysts Average Price by Manufacturer (2021-2026) & (US\$/Ton)

Table 21. Global Asymmetric catalysts Company Evaluation Quadrant

Table 22. World Asymmetric catalysts Industry Rank of Major Manufacturers, Based on

Production Value in 2025

Table 23. Head Office and Asymmetric catalysts Production Site of Key Manufacturer

Table 24. Asymmetric catalysts Market: Company Product Type Footprint

Table 25. Asymmetric catalysts Market: Company Product Application Footprint

Table 26. Asymmetric catalysts Competitive Factors

Table 27. Asymmetric catalysts New Entrant and Capacity Expansion Plans

Table 28. Asymmetric catalysts Mergers & Acquisitions Activity

Table 29. United States VS China Asymmetric catalysts Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Asymmetric catalysts Production Comparison, (2021 & 2025 & 2032) & (Tons)

Table 31. United States VS China Asymmetric catalysts Consumption Comparison, (2021 & 2025 & 2032) & (Tons)

Table 32. United States Based Asymmetric catalysts Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Asymmetric catalysts Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Asymmetric catalysts Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Asymmetric catalysts Production (2021-2026) & (Tons)

Table 36. United States Based Manufacturers Asymmetric catalysts Production Market Share (2021-2026)

Table 37. China Based Asymmetric catalysts Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Asymmetric catalysts Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Asymmetric catalysts Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Asymmetric catalysts Production, (2021-2026) & (Tons)

Table 41. China Based Manufacturers Asymmetric catalysts Production Market Share (2021-2026)

Table 42. Rest of World Based Asymmetric catalysts Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Asymmetric catalysts Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Asymmetric catalysts Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Asymmetric catalysts Production, (2021-2026) & (Tons)

Table 46. Rest of World Based Manufacturers Asymmetric catalysts Production Market Share (2021-2026)

Table 47. World Asymmetric catalysts Production Value by Technology, (USD Million), 2021 & 2025 & 2032

Table 48. World Asymmetric catalysts Production by Technology (2021-2026) & (Tons)

Table 49. World Asymmetric catalysts Production by Technology (2027-2032) & (Tons)

Table 50. World Asymmetric catalysts Production Value by Technology (2021-2026) & (USD Million)

Table 51. World Asymmetric catalysts Production Value by Technology (2027-2032) & (USD Million)

Table 52. World Asymmetric catalysts Average Price by Technology (2021-2026) & (US\$/Ton)

Table 53. World Asymmetric catalysts Average Price by Technology (2027-2032) & (US\$/Ton)

Table 54. World Asymmetric catalysts Production Value by Catalyst Type, (USD Million), 2021 & 2025 & 2032

Table 55. World Asymmetric catalysts Production by Catalyst Type (2021-2026) & (Tons)

Table 56. World Asymmetric catalysts Production by Catalyst Type (2027-2032) & (Tons)

Table 57. World Asymmetric catalysts Production Value by Catalyst Type (2021-2026) & (USD Million)

Table 58. World Asymmetric catalysts Production Value by Catalyst Type (2027-2032) & (USD Million)

Table 59. World Asymmetric catalysts Average Price by Catalyst Type (2021-2026) & (US\$/Ton)

Table 60. World Asymmetric catalysts Average Price by Catalyst Type (2027-2032) & (US\$/Ton)

Table 61. World Asymmetric catalysts Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 62. World Asymmetric catalysts Production by Application (2021-2026) & (Tons)

Table 63. World Asymmetric catalysts Production by Application (2027-2032) & (Tons)

Table 64. World Asymmetric catalysts Production Value by Application (2021-2026) & (USD Million)

Table 65. World Asymmetric catalysts Production Value by Application (2027-2032) & (USD Million)

Table 66. World Asymmetric catalysts Average Price by Application (2021-2026) &

(US\$/Ton)

Table 67. World Asymmetric catalysts Average Price by Application (2027-2032) & (US\$/Ton)

Table 68. Takasago International Basic Information, Manufacturing Base and Competitors

Table 69. Takasago International Major Business

Table 70. Takasago International Asymmetric catalysts Product and Services

Table 71. Takasago International Asymmetric catalysts Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 72. Takasago International Recent Developments/Updates

Table 73. Takasago International Competitive Strengths & Weaknesses

Table 74. Solvias Basic Information, Manufacturing Base and Competitors

Table 75. Solvias Major Business

Table 76. Solvias Asymmetric catalysts Product and Services

Table 77. Solvias Asymmetric catalysts Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 78. Solvias Recent Developments/Updates

Table 79. Solvias Competitive Strengths & Weaknesses

Table 80. Johnson Matthey Basic Information, Manufacturing Base and Competitors

Table 81. Johnson Matthey Major Business

Table 82. Johnson Matthey Asymmetric catalysts Product and Services

Table 83. Johnson Matthey Asymmetric catalysts Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 84. Johnson Matthey Recent Developments/Updates

Table 85. Johnson Matthey Competitive Strengths & Weaknesses

Table 86. BASF Basic Information, Manufacturing Base and Competitors

Table 87. BASF Major Business

Table 88. BASF Asymmetric catalysts Product and Services

Table 89. BASF Asymmetric catalysts Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 90. BASF Recent Developments/Updates

Table 91. BASF Competitive Strengths & Weaknesses

Table 92. Umicore Basic Information, Manufacturing Base and Competitors

Table 93. Umicore Major Business

Table 94. Umicore Asymmetric catalysts Product and Services

Table 95. Umicore Asymmetric catalysts Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 96. Umicore Recent Developments/Updates

- Table 97. Umicore Competitive Strengths & Weaknesses
- Table 98. Strem Chemicals Basic Information, Manufacturing Base and Competitors
- Table 99. Strem Chemicals Major Business
- Table 100. Strem Chemicals Asymmetric catalysts Product and Services
- Table 101. Strem Chemicals Asymmetric catalysts Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 102. Strem Chemicals Recent Developments/Updates
- Table 103. Strem Chemicals Competitive Strengths & Weaknesses
- Table 104. Novozymes Basic Information, Manufacturing Base and Competitors
- Table 105. Novozymes Major Business
- Table 106. Novozymes Asymmetric catalysts Product and Services
- Table 107. Novozymes Asymmetric catalysts Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 108. Novozymes Recent Developments/Updates
- Table 109. Novozymes Competitive Strengths & Weaknesses
- Table 110. DSM-Firmenich Basic Information, Manufacturing Base and Competitors
- Table 111. DSM-Firmenich Major Business
- Table 112. DSM-Firmenich Asymmetric catalysts Product and Services
- Table 113. DSM-Firmenich Asymmetric catalysts Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 114. DSM-Firmenich Recent Developments/Updates
- Table 115. DSM-Firmenich Competitive Strengths & Weaknesses
- Table 116. Codexis Basic Information, Manufacturing Base and Competitors
- Table 117. Codexis Major Business
- Table 118. Codexis Asymmetric catalysts Product and Services
- Table 119. Codexis Asymmetric catalysts Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 120. Codexis Recent Developments/Updates
- Table 121. Codexis Competitive Strengths & Weaknesses
- Table 122. Amano Enzyme Basic Information, Manufacturing Base and Competitors
- Table 123. Amano Enzyme Major Business
- Table 124. Amano Enzyme Asymmetric catalysts Product and Services
- Table 125. Amano Enzyme Asymmetric catalysts Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 126. Amano Enzyme Recent Developments/Updates
- Table 127. Amano Enzyme Competitive Strengths & Weaknesses
- Table 128. Prozomix Basic Information, Manufacturing Base and Competitors
- Table 129. Prozomix Major Business
- Table 130. Prozomix Asymmetric catalysts Product and Services

- Table 131. Prozomix Asymmetric catalysts Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 132. Prozomix Recent Developments/Updates
- Table 133. Prozomix Competitive Strengths & Weaknesses
- Table 134. Enzymaster Basic Information, Manufacturing Base and Competitors
- Table 135. Enzymaster Major Business
- Table 136. Enzymaster Asymmetric catalysts Product and Services
- Table 137. Enzymaster Asymmetric catalysts Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 138. Enzymaster Recent Developments/Updates
- Table 139. Enzymaster Competitive Strengths & Weaknesses
- Table 140. WuXi AppTec Basic Information, Manufacturing Base and Competitors
- Table 141. WuXi AppTec Major Business
- Table 142. WuXi AppTec Asymmetric catalysts Product and Services
- Table 143. WuXi AppTec Asymmetric catalysts Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 144. WuXi AppTec Recent Developments/Updates
- Table 145. WuXi AppTec Competitive Strengths & Weaknesses
- Table 146. Asymchem Basic Information, Manufacturing Base and Competitors
- Table 147. Asymchem Major Business
- Table 148. Asymchem Asymmetric catalysts Product and Services
- Table 149. Asymchem Asymmetric catalysts Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 150. Asymchem Recent Developments/Updates
- Table 151. Asymchem Competitive Strengths & Weaknesses
- Table 152. Lonza Basic Information, Manufacturing Base and Competitors
- Table 153. Lonza Major Business
- Table 154. Lonza Asymmetric catalysts Product and Services
- Table 155. Lonza Asymmetric catalysts Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 156. Lonza Recent Developments/Updates
- Table 157. Lonza Competitive Strengths & Weaknesses
- Table 158. Global Key Players of Asymmetric catalysts Upstream (Raw Materials)
- Table 159. Global Asymmetric catalysts Typical Customers
- Table 160. Asymmetric catalysts Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Asymmetric catalysts Picture

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

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

Figure 4. World Asymmetric catalysts Production (2021-2032) & (Tons)

Figure 5. World Asymmetric catalysts Average Price (2021-2032) & (US\$/Ton)

Figure 6. World Asymmetric catalysts Production Value Market Share by Region (2021-2032)

Figure 7. World Asymmetric catalysts Production Market Share by Region (2021-2032)

Figure 8. North America Asymmetric catalysts Production (2021-2032) & (Tons)

Figure 9. Europe Asymmetric catalysts Production (2021-2032) & (Tons)

Figure 10. China Asymmetric catalysts Production (2021-2032) & (Tons)

Figure 11. Japan Asymmetric catalysts Production (2021-2032) & (Tons)

Figure 12. India Asymmetric catalysts Production (2021-2032) & (Tons)

Figure 13. Asymmetric catalysts Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World Asymmetric catalysts Consumption (2021-2032) & (Tons)

Figure 16. World Asymmetric catalysts Consumption Market Share by Region (2021-2032)

Figure 17. United States Asymmetric catalysts Consumption (2021-2032) & (Tons)

Figure 18. China Asymmetric catalysts Consumption (2021-2032) & (Tons)

Figure 19. Europe Asymmetric catalysts Consumption (2021-2032) & (Tons)

Figure 20. Japan Asymmetric catalysts Consumption (2021-2032) & (Tons)

Figure 21. South Korea Asymmetric catalysts Consumption (2021-2032) & (Tons)

Figure 22. ASEAN Asymmetric catalysts Consumption (2021-2032) & (Tons)

Figure 23. India Asymmetric catalysts Consumption (2021-2032) & (Tons)

Figure 24. Producer Shipments of Asymmetric catalysts by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 25. Global Four-firm Concentration Ratios (CR4) for Asymmetric catalysts Markets in 2025

Figure 26. Global Four-firm Concentration Ratios (CR8) for Asymmetric catalysts Markets in 2025

Figure 27. United States VS China: Asymmetric catalysts Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Asymmetric catalysts Production Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Asymmetric catalysts Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States Based Manufacturers Asymmetric catalysts Production Market Share 2025

Figure 31. China Based Manufacturers Asymmetric catalysts Production Market Share 2025

Figure 32. Rest of World Based Manufacturers Asymmetric catalysts Production Market Share 2025

Figure 33. World Asymmetric catalysts Production Value by Technology, (USD Million), 2021 & 2025 & 2032

Figure 34. World Asymmetric catalysts Production Value Market Share by Technology in 2025

Figure 35. Chemical Asymmetric Catalysis

Figure 36. Biocatalysis

Figure 37. World Asymmetric catalysts Production Market Share by Technology (2021-2032)

Figure 38. World Asymmetric catalysts Production Value Market Share by Technology (2021-2032)

Figure 39. World Asymmetric catalysts Average Price by Technology (2021-2032) & (US\$/Ton)

Figure 40. World Asymmetric catalysts Production Value by Catalyst Type, (USD Million), 2021 & 2025 & 2032

Figure 41. World Asymmetric catalysts Production Value Market Share by Catalyst Type in 2025

Figure 42. Diphosphine Catalysts

Figure 43. Other Chiral Ligands

Figure 44. Engineered Enzymes

Figure 45. Immobilized Enzymes

Figure 46. World Asymmetric catalysts Production Market Share by Catalyst Type (2021-2032)

Figure 47. World Asymmetric catalysts Production Value Market Share by Catalyst Type (2021-2032)

Figure 48. World Asymmetric catalysts Average Price by Catalyst Type (2021-2032) & (US\$/Ton)

Figure 49. World Asymmetric catalysts Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 50. World Asymmetric catalysts Production Value Market Share by Application in

2025

Figure 51. Pharmaceuticals

Figure 52. Agrochemicals

Figure 53. Fine Chemicals

Figure 54. World Asymmetric catalysts Production Market Share by Application (2021-2032)

Figure 55. World Asymmetric catalysts Production Value Market Share by Application (2021-2032)

Figure 56. World Asymmetric catalysts Average Price by Application (2021-2032) & (US\$/Ton)

Figure 57. Asymmetric catalysts Industry Chain

Figure 58. Asymmetric catalysts Procurement Model

Figure 59. Asymmetric catalysts Sales Model

Figure 60. Asymmetric catalysts Sales Channels, Direct Sales, and Distribution

Figure 61. Methodology

Figure 62. Research Process and Data Source

I would like to order

Product name: Global Asymmetric catalysts Supply, Demand and Key Producers, 2026-2032

Product link: <https://marketpublishers.com/r/G8033B24C080EN.html>

Price: US\$ 4,480.00 (Single User License / Electronic Delivery)

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

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G8033B24C080EN.html>