

Global Non-Natural Configuration Chiral Molecules Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G79FEA277319EN.html>

Date: June 2026

Pages: 188

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

ID: G79FEA277319EN

Abstracts

According to our (Global Info Research) latest study, the global Non-Natural Configuration Chiral Molecules market size was valued at US\$ 18579 million in 2025 and is forecast to a readjusted size of US\$ 37957 million by 2032 with a CAGR of 10.7% during review period.

Non-Natural Configuration Chiral Molecules refer to chiral compounds whose absolute configuration is enantiomeric (mirror image) to that of natural products found in biosynthesis, or has no natural counterpart. Natural configuration is based on L-amino acids, R-terpenes, etc., while non-natural configuration represents the opposite spatial arrangement at a chiral center, axis or plane. Their core value lies in the ability to precisely engineer specific non-natural configurations that endow molecules with distinct bioactivity, metabolic stability, pharmacokinetic properties and material performance compared to natural isomers. They have become indispensable design elements in drug discovery (particularly for peptides, ADCs, PPI inhibitors), chiral pesticides and functional materials. Key preparation routes include chemical asymmetric catalytic hydrogenation, biocatalysis (enzymatic asymmetric synthesis/kinetic resolution), chemo-enzymatic cascades, and configuration inversion of chiral pool compounds.

Non-natural configuration chiral molecules represent the highest-technology-density and most value-added segment of the chiral chemicals market. Their core value lies in providing enantiomers not found in nature, endowing drug molecules with novel biological activity, metabolic stability, and drug-like properties. Pricing follows an inverted pyramid: commodity unnatural amino acids (e.g., D-p-hydroxyphenylglycine) at USD 20–50/kg; unnatural chiral alcohol/amine intermediates (e.g., sitagliptin chiral amine) USD 200–1,000/kg; complex axially chiral ligands (e.g., BINAP, Segphos)

hundreds to thousands of USD per gram; and ultra-small batch custom chiral catalysts or innovative drug building blocks can reach tens of thousands of USD per gram. Margins correlate with technology and customer lock-in: traditional chemical resolution 20–30% gross margin; asymmetric catalytic hydrogenation (e.g., Jiuzhou, Asymchem) 35–50%; biocatalysis/enzymatic processes (Codexis, Jincheng) 50–65% due to selectivity and green advantages; platform companies offering unique chiral building blocks or ligands (Pharmablock, Solvias) can achieve 60–75% gross margins. Downstream primary applications: pharmaceutical industry accounts for ~85% of non-natural chiral molecule consumption – small molecule APIs/intermediates ~50%, unnatural amino acids in peptides/ADCs/PROTACs ~25%, chiral ligands/catalysts ~10%; agrochemicals ~8%; fine chemicals & fragrances ~4%; materials science (OLEDs, liquid crystals) ~3%. Incremental demand is driven by: (1) blockbuster peptide drugs (semaglutide, tirzepatide) driving >20% annual growth in unnatural amino acids (Aib, D-amino acids, N-methyl amino acids); (2) ADCs requiring unnatural linkers and payloads based on D-amino acids and chiral alcohols; (3) China and India CDMOs outsourcing chiral intermediates, promoting asymmetric & biocatalysis; (4) generic companies seeking new cost-effective routes to non-natural intermediates after patent cliffs. Upstream-downstream structure: upstream – chiral pool chemicals (tartaric acid, natural amino acids, sugars), enzymes, metal catalysts; midstream – CDMOs/API companies with asymmetric catalysis, biocatalysis, kinetic resolution (BASF, Johnson Matthey, WuXi AppTec, Asymchem, Jiuzhou, Porton, Codexis, Solvias) and chiral building block platforms (Pharmablock); downstream – global pharma, agrochemical, and material companies. Landscape features a “Europe/US innovation vs China scale manufacturing” complementary pattern. European/US players (BASF, Merck, Johnson Matthey, Codexis, Solvias) retain clear advantages in chiral ligand design, enzyme engineering, continuous flow asymmetric catalysis – capturing high-value custom markets with strong IP. Chinese players (WuXi AppTec, Asymchem, Jiuzhou, Porton, Pharmablock, Huahai, Jincheng, Xintian Di) have become dominant in scaled production of unnatural amino acids and common chiral alcohols/amines, leveraging cost, speed and capacity to become preferred outsourcing partners for MNCs. Japanese companies (Daicel, Tosoh) maintain monopoly in chiral separation materials. Uncertainties include: (1) AI-assisted enzyme design and automated synthesis platforms could drastically reduce development cost and time, potentially disrupting current routes; (2) whether demand for exotic chiral building blocks (spiro, cage compounds) from peptides/PROTACs materializes as expected; (3) overcapacity and price war risks in China’s CDMO sector compressing margins; (4) tightening environmental regulations restricting traditional chemical resolution and metal catalysis. Conclusion: Non-natural configuration chiral molecules are among the highest-growth segments in pharmaceutical CDMO and fine chemicals. Core drivers are rigid demand

from new peptide drugs, ADCs, and complex chiral pesticides, plus continued replacement of classical resolution by green asymmetric catalysis. Structural features include high technical barriers, strong customer lock-in, Europe/US controlling high-value design, China dominating scaled manufacturing. Over the next five years, biocatalysis, continuous flow chemistry, and AI-driven catalyst design will reshape the value chain. Companies with proprietary enzyme libraries, unique chiral building block portfolios, and scaled asymmetric catalysis capabilities will benefit the most.

This report is a detailed and comprehensive analysis for global Non-Natural Configuration Chiral Molecules market. Both quantitative and qualitative analyses are presented by manufacturers, 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 Non-Natural Configuration Chiral Molecules market size and forecasts, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global Non-Natural Configuration Chiral Molecules market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global Non-Natural Configuration Chiral Molecules market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global Non-Natural Configuration Chiral Molecules market shares of main players, shipments in revenue (\$ Million), sales quantity (kg), and ASP (US\$/kg), 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 Non-Natural Configuration Chiral Molecules

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 Non-Natural Configuration Chiral Molecules market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include BASF, Johnson Matthey, Merck KGaA, WuXi AppTec, Asymchem Laboratories, Jiuzhou Pharmaceutical, Porton Pharma Solutions, Zhejiang Huahai Pharmaceutical, Pharmablock Sciences, Codexis, etc.

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

Market Segmentation

Non-Natural Configuration Chiral Molecules 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 in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Unnatural Amino Acids & Derivatives

Unnatural Chiral Alcohols / Amines / Acids Building Blocks

Chiral Ligands & Catalysts

Axially & Planar Chiral Compounds

Other Unnatural Chiral Functional Molecules

Market segment by Process

Chemical Asymmetric Catalysis

Biocatalysis / Enzymatic Asymmetric Synthesis

Kinetic Resolution

Chiral Pool Inversion

Chemo?enzymatic Cascade

Market segment by Application

Pharmaceutical Industry (Drug Substance & Intermediates)

Agrochemical Industry (Chiral Pesticides)

Fine Chemicals & Fragrances

Materials Science (Liquid Crystals, OLEDs, Chiral Sensors)

Others

Major players covered

BASF

Johnson Matthey

Merck KGaA

WuXi AppTec

Asymchem Laboratories

Jiuzhou Pharmaceutical

Porton Pharma Solutions

Zhejiang Huahai Pharmaceutical

Pharmablock Sciences

Codexis

Solvias

Daicel

Chengdu Likai Chiral Technology

Jincheng Pharmaceutical

Zhejiang Xintian Di Pharmaceutical

Wanhua Chemical Group

Hailong Scentech

Lonza

Bachem

Olon Group

Dipharma Group

Agilent Technologies

Shimadzu

Sepax Technologies

TCI (Tokyo Chemical Industry)

Strem Chemicals

BIDE Pharmatech

J&K Scientific

Chiral Quest

WeylChem Group

Dishman Group

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Non-Natural Configuration Chiral Molecules product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Non-Natural Configuration Chiral Molecules, with price, sales quantity, revenue, and global market share of Non-Natural Configuration Chiral Molecules from 2021 to 2026.

Chapter 3, the Non-Natural Configuration Chiral Molecules competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Non-Natural Configuration Chiral Molecules breakdown data are shown

at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Non-Natural Configuration Chiral Molecules market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Non-Natural Configuration Chiral Molecules.

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