

Global Chiral Chemicals Market Size, Share & Trends Analysis, By Technology (Traditional Separation, Asymmetric Preparation), By Application (Pharmaceuticals, Agrochemicals, Flavors/Fragrances, Others), and Regional Forecasts 2022-2032

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Abstracts

The Global Chiral Chemicals Market was valued at approximately USD 71.4 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 8.4% over the forecast period 2024-2032. Chiral chemicals are a critical component in industries such as pharmaceuticals, agrochemicals, and flavors/fragrances, as they enable the production of enantiomerically pure compounds, enhancing the efficacy and safety of products.

One of the key factors driving the market growth is the increasing demand for single-enantiomer drugs in the pharmaceutical industry. The need for enantiopure compounds arises from the recognition of chirality's role in biological processes, which ensures maximum therapeutic benefit and minimizes adverse effects. Additionally, advancements in asymmetric synthesis technology have significantly improved productivity, reduced waste, and decreased manufacturing costs, further boosting the market.

The agrochemical sector is also contributing significantly to market growth, as chiral molecules are being increasingly utilized in the production of pesticides and herbicides. These compounds provide enhanced potency, requiring lower concentrations, aligning with sustainable agricultural practices. Furthermore, the flavors and fragrances industry relies on chiral chemicals to create complex, appealing, and eco-friendly products,

reflecting evolving consumer preferences.

Regionally, North America dominated the market in 2023 with a revenue share of 42.4%, driven by strong investments in pharmaceutical R&D and a robust regulatory framework. Meanwhile, the Asia Pacific region is expected to grow at the fastest CAGR of 12.3%, supported by rapid industrialization, increasing demand for specialty chemicals, and expanding pharmaceutical manufacturing capabilities in countries such as China and India.

Despite challenges such as the high cost of advanced technologies, the market benefits from strong R&D initiatives, a focus on sustainability, and expanding applications in key industries, positioning it for steady growth in the coming years.

Major market players included in this report are:

1. Solvias
2. Ascensus
3. Chiral Technologies
4. Johnson Matthey
5. BASF SE
6. W. R. Grace & Co.-Conn.
7. PerkinElmer Inc.
8. Codexis, Inc.
9. The Dow Chemical Company
10. Chiracon GmbH
11. Daicel Chiral Technologies
12. Merck KGaA

13. Thermo Fisher Scientific

14. LUMITOS AG

15. Novasep

The detailed segments and sub-segments of the market are explained below:

By Technology

Traditional Separation Method

Asymmetric Preparation Method

Asymmetric Synthesis Method

Asymmetric Catalysis Method

Biological Separation Method

Other Separation Methods

By Application

Pharmaceuticals

Agrochemicals

Flavors/Fragrances

Other Applications

By Region:

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Rest of Europe

Asia Pacific

China

India

Japan

South Korea

Rest of Asia Pacific

Latin America

Brazil

Argentina

Rest of Latin America

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

Years considered for the study are as follows:

Historical year: 2022

Base year: 2023

Forecast period: 2024-2032

Key Takeaways:

Market estimates and forecasts for 10 years (2022–2032).

Comprehensive regional and country-level analysis for key markets.

Insights into competitive dynamics and company strategies.

Analysis of demand-side and supply-side drivers for market trends.

Actionable recommendations for key market opportunities.

Contents

CHAPTER 1. GLOBAL CHIRAL CHEMICALS MARKET EXECUTIVE SUMMARY

- 1.1. Global Chiral Chemicals Market Size & Forecast (2022–2032)
- 1.2. Regional Summary
- 1.3. Segmental Summary
 - 1.3.1. By Technology
 - 1.3.2. By Application
- 1.4. Key Trends
- 1.5. Recession Impact
- 1.6. Analyst Recommendations & Conclusion

CHAPTER 2. GLOBAL CHIRAL CHEMICALS MARKET DEFINITION AND RESEARCH ASSUMPTIONS

- 2.1. Research Objective
- 2.2. Market Definition
- 2.3. Research Assumptions
 - 2.3.1. Inclusion & Exclusion
 - 2.3.2. Limitations
 - 2.3.3. Supply Side Analysis
 - 2.3.3.1. Availability
 - 2.3.3.2. Infrastructure
 - 2.3.3.3. Regulatory Environment
 - 2.3.3.4. Market Competition
 - 2.3.3.5. Economic Viability (Consumer Perspective)
 - 2.3.4. Demand Side Analysis
 - 2.3.4.1. Regulatory Frameworks
 - 2.3.4.2. Technological Advancements
 - 2.3.4.3. Environmental Considerations
 - 2.3.4.4. Consumer Awareness & Acceptance
- 2.4. Estimation Methodology
- 2.5. Years Considered for the Study
- 2.6. Currency Conversion Rates

CHAPTER 3. GLOBAL CHIRAL CHEMICALS MARKET DYNAMICS

- 3.1. Market Drivers

- 3.1.1. Rising demand for single-enantiomer pharmaceuticals
- 3.1.2. Advancements in asymmetric synthesis technologies
- 3.1.3. Expanding applications in agrochemicals, flavors, and fragrances
- 3.2. Market Challenges
 - 3.2.1. High production costs of chiral compounds
 - 3.2.2. Scalability issues for advanced synthesis methods
- 3.3. Market Opportunities
 - 3.3.1. Growth in eco-friendly agrochemical products
 - 3.3.2. Expansion of chiral chemical applications in emerging markets

CHAPTER 4. GLOBAL CHIRAL CHEMICALS MARKET INDUSTRY ANALYSIS

- 4.1. Porter's Five Forces Model
 - 4.1.1. Bargaining Power of Suppliers
 - 4.1.2. Bargaining Power of Buyers
 - 4.1.3. Threat of New Entrants
 - 4.1.4. Threat of Substitutes
 - 4.1.5. Competitive Rivalry
- 4.2. PESTEL Analysis
 - 4.2.1. Political
 - 4.2.2. Economic
 - 4.2.3. Social
 - 4.2.4. Technological
 - 4.2.5. Environmental
 - 4.2.6. Legal
- 4.3. Top Investment Opportunities
- 4.4. Top Winning Strategies
- 4.5. Disruptive Trends
- 4.6. Industry Expert Perspective
- 4.7. Analyst Recommendations & Conclusion

CHAPTER 5. GLOBAL CHIRAL CHEMICALS MARKET SIZE & FORECAST BY TECHNOLOGY 2022–2032

- 5.1. Segment Dashboard
- 5.2. Global Chiral Chemicals Market: Technology Revenue Trend Analysis, 2022 & 2032 (USD Million)
 - 5.2.1. Traditional Separation Method
 - 5.2.2. Asymmetric Preparation Method

- 5.2.3. Asymmetric Synthesis Method
- 5.2.4. Asymmetric Catalysis Method
- 5.2.5. Biological Separation Method
- 5.2.6. Other Separation Methods

CHAPTER 6. GLOBAL CHIRAL CHEMICALS MARKET SIZE & FORECAST BY APPLICATION 2022–2032

- 6.1. Segment Dashboard
- 6.2. Global Chiral Chemicals Market: Application Revenue Trend Analysis, 2022 & 2032 (USD Million)
 - 6.2.1. Pharmaceuticals
 - 6.2.2. Agrochemicals
 - 6.2.3. Flavors/Fragrances
 - 6.2.4. Other Applications

CHAPTER 7. GLOBAL CHIRAL CHEMICALS MARKET SIZE & FORECAST BY REGION 2022–2032

- 7.1. North America Chiral Chemicals Market
 - 7.1.1. U.S. Chiral Chemicals Market
 - 7.1.2. Canada Chiral Chemicals Market
 - 7.1.3. Mexico Chiral Chemicals Market
- 7.2. Europe Chiral Chemicals Market
 - 7.2.1. UK Chiral Chemicals Market
 - 7.2.2. Germany Chiral Chemicals Market
 - 7.2.3. France Chiral Chemicals Market
 - 7.2.4. Rest of Europe Chiral Chemicals Market
- 7.3. Asia Pacific Chiral Chemicals Market
 - 7.3.1. China Chiral Chemicals Market
 - 7.3.2. India Chiral Chemicals Market
 - 7.3.3. Japan Chiral Chemicals Market
 - 7.3.4. South Korea Chiral Chemicals Market
 - 7.3.5. Rest of Asia Pacific Chiral Chemicals Market
- 7.4. Latin America Chiral Chemicals Market
 - 7.4.1. Brazil Chiral Chemicals Market
 - 7.4.2. Argentina Chiral Chemicals Market
 - 7.4.3. Rest of Latin America Chiral Chemicals Market
- 7.5. Middle East & Africa Chiral Chemicals Market

- 7.5.1. Saudi Arabia Chiral Chemicals Market
- 7.5.2. South Africa Chiral Chemicals Market
- 7.5.3. Rest of Middle East & Africa Chiral Chemicals Market

CHAPTER 8. COMPETITIVE INTELLIGENCE

- 8.1. Key Company SWOT Analysis
 - 8.1.1. Solvias
 - 8.1.2. Ascensus
 - 8.1.3. Johnson Matthey
- 8.2. Top Market Strategies
- 8.3. Company Profiles
 - 8.3.1. Solvias
 - 8.3.2. Ascensus
 - 8.3.3. BASF SE

CHAPTER 9. RESEARCH PROCESS

- 9.1. Research Process
 - 9.1.1. Data Mining
 - 9.1.2. Analysis
 - 9.1.3. Market Estimation
 - 9.1.4. Validation
 - 9.1.5. Publishing
- 9.2. Research Attributes

12. LIST OF TABLES

- TABLE 1. Global Chiral Chemicals Market, Report Scope
- TABLE 2. Global Chiral Chemicals Market Estimates & Forecasts by Technology, 2022–2032 (USD Million)
- TABLE 3. Global Chiral Chemicals Market Estimates & Forecasts by Application, 2022–2032 (USD Million)
- TABLE 4. Global Chiral Chemicals Market Estimates & Forecasts by Region, 2022–2032 (USD Million)
- TABLE 5. North America Chiral Chemicals Market by Technology, 2022–2032 (USD Million)
- TABLE 6. Asia Pacific Chiral Chemicals Market by Application, 2022–2032 (USD Million)

TABLE 7. Europe Chiral Chemicals Market by Technology, 2022–2032 (USD Million)

TABLE 8. Middle East & Africa Chiral Chemicals Market by Application, 2022–2032 (USD Million)

This list is not complete; the final report contains more than 100 tables.

12. LIST OF FIGURES

FIGURE 1. Global Chiral Chemicals Market Research Methodology

FIGURE 2. Global Chiral Chemicals Market Dynamics

FIGURE 3. Global Chiral Chemicals Market Size by Region, 2022 & 2032 (USD Million)

FIGURE 4. Asia Pacific Chiral Chemicals Market Revenue Share by Application, 2023 (%)

FIGURE 5. North America Chiral Chemicals Market Growth Forecast by Technology, 2022–2032

FIGURE 6. Europe Chiral Chemicals Market by Technology, 2022 & 2032 (USD Million)

FIGURE 7. Middle East & Africa Chiral Chemicals Market by Application, 2022 & 2032

This list is not complete; the final report contains more than 50 figures.

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