

Global N-Acetyl-L-Cysteine Market Growth 2025-2031

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Abstracts

The global N-Acetyl-L-Cysteine market size is predicted to grow from US\$ 129 million in 2025 to US\$ 207 million in 2031; it is expected to grow at a CAGR of 8.3% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

N-Acetyl-L-Cysteine, is a pharmaceutical compound and dietary supplement widely used for its mucolytic, antioxidant, and hepatoprotective properties. It is a derivative of the naturally occurring amino acid cysteine and functions primarily as a precursor to glutathione, a key antioxidant in human biology. N-Acetyl-L-Cysteine's versatility in clinical applications stems from its biochemical properties, including its ability to reduce disulfide bonds, which makes it effective in breaking down mucus and detoxifying reactive metabolites in the liver.

In medical practice, its primary applications include the treatment of paracetamol (acetaminophen) overdose, as a mucolytic agent for respiratory conditions like chronic obstructive pulmonary disease (COPD), cystic fibrosis, and bronchitis, and as a protective agent against contrast-induced nephropathy and certain psychiatric disorders. In the case of paracetamol toxicity, N-Acetyl-L-Cysteine replenishes intracellular glutathione, aiding in the detoxification of the harmful metabolite NAPQI, thereby preventing liver damage.

Furthermore, in its inhalation form, N-Acetyl-L-Cysteine directly breaks down thick mucus in the lungs, improving breathing in patients with respiratory ailments. The oral form is also marketed as a dietary supplement for its antioxidant benefits and has gained popularity in alternative medicine circles for purported benefits in mental health,

liver function, and fertility. In recent years, there has been growing interest in NAC's role in treating psychiatric and neurological disorders such as bipolar disorder, obsessive-compulsive disorder (OCD), and substance use disorders due to its modulation of glutamate and oxidative stress pathways.

One of the primary growth drivers of the N-Acetyl-L-Cysteine market is the rising incidence of chronic respiratory diseases. COPD and asthma continue to be among the most prevalent non-communicable diseases globally, particularly in aging populations and regions with high levels of air pollution. Mucolytic agents like N-Acetyl-L-Cysteine play a vital role in managing these conditions by improving expectoration and reducing the frequency of exacerbations. The increasing burden of respiratory diseases in developing countries, along with improved access to healthcare services, has opened new avenues for market penetration.

Another major segment of demand arises from the treatment of paracetamol poisoning, which remains a common cause of acute liver failure in many countries. The widespread use of paracetamol and the risks associated with accidental or intentional overdose contribute to a consistent need for N-Acetyl-L-Cysteine in emergency and critical care settings. This application also fuels the demand for injectable and intravenous formulations in hospital and emergency care units.

In recent years, the growing nutraceutical industry has had a significant impact on the N-Acetyl-L-Cysteine market. NAC is frequently marketed as a supplement for liver detoxification, immune support, and mental well-being. The increased consumer interest in antioxidants and natural therapies, spurred by a general shift toward preventive health and wellness, has further boosted demand. Additionally, with the rise of e-commerce and direct-to-consumer sales platforms, NAC supplements have become widely accessible, expanding the market beyond traditional pharmacy channels.

Global key players of N-Acetyl-L-Cysteine include Zambon, Axplora (Pharmazell), Wuhan Grand Hoyo, Moehs, Shine Star Biological, etc. The top five players hold a share about 70%. Europe is the largest market, and has a share about 45%, followed by Asia-Pacific and North America with share 30% and 20%, separately.

LP Information, Inc. (LPI) ' newest research report, the "N-Acetyl-L-Cysteine Industry Forecast" looks at past sales and reviews total world N-Acetyl-L-Cysteine sales in 2024, providing a comprehensive analysis by region and market sector of projected N-Acetyl-L-Cysteine sales for 2025 through 2031. With N-Acetyl-L-Cysteine sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$

millions of the world N-Acetyl-L-Cysteine industry.

This Insight Report provides a comprehensive analysis of the global N-Acetyl-L-Cysteine landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on N-Acetyl-L-Cysteine portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global N-Acetyl-L-Cysteine market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for N-Acetyl-L-Cysteine and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global N-Acetyl-L-Cysteine.

This report presents a comprehensive overview, market shares, and growth opportunities of N-Acetyl-L-Cysteine market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Oral

Topical

Segmentation by Application:

Pharmaceutical

Biochemical Research

Healthcare Products

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Zambon

Moehs

Axplora (Pharmazell)

Nippon Rika

Chengyi Pharma

Wuhan Grand Hoyo

Manus Aktteva Biopharma

Shine Star Biological

Huachang Pharmaceutical

Xinhanling Biological

Shuguang Biological

Key Questions Addressed in this Report

What is the 10-year outlook for the global N-Acetyl-L-Cysteine market?

What factors are driving N-Acetyl-L-Cysteine market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do N-Acetyl-L-Cysteine market opportunities vary by end market size?

How does N-Acetyl-L-Cysteine break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global N-Acetyl-L-Cysteine Annual Sales 2020-2031
 - 2.1.2 World Current & Future Analysis for N-Acetyl-L-Cysteine by Geographic Region, 2020, 2024 & 2031
 - 2.1.3 World Current & Future Analysis for N-Acetyl-L-Cysteine by Country/Region, 2020, 2024 & 2031
- 2.2 N-Acetyl-L-Cysteine Segment by Type
 - 2.2.1 Oral
 - 2.2.2 Topical
- 2.3 N-Acetyl-L-Cysteine Sales by Type
 - 2.3.1 Global N-Acetyl-L-Cysteine Sales Market Share by Type (2020-2025)
 - 2.3.2 Global N-Acetyl-L-Cysteine Revenue and Market Share by Type (2020-2025)
 - 2.3.3 Global N-Acetyl-L-Cysteine Sale Price by Type (2020-2025)
- 2.4 N-Acetyl-L-Cysteine Segment by Application
 - 2.4.1 Pharmaceutical
 - 2.4.2 Biochemical Research
 - 2.4.3 Healthcare Products
 - 2.4.4 Others
- 2.5 N-Acetyl-L-Cysteine Sales by Application
 - 2.5.1 Global N-Acetyl-L-Cysteine Sale Market Share by Application (2020-2025)
 - 2.5.2 Global N-Acetyl-L-Cysteine Revenue and Market Share by Application (2020-2025)
 - 2.5.3 Global N-Acetyl-L-Cysteine Sale Price by Application (2020-2025)

3 GLOBAL BY COMPANY

3.1 Global N-Acetyl-L-Cysteine Breakdown Data by Company

3.1.1 Global N-Acetyl-L-Cysteine Annual Sales by Company (2020-2025)

3.1.2 Global N-Acetyl-L-Cysteine Sales Market Share by Company (2020-2025)

3.2 Global N-Acetyl-L-Cysteine Annual Revenue by Company (2020-2025)

3.2.1 Global N-Acetyl-L-Cysteine Revenue by Company (2020-2025)

3.2.2 Global N-Acetyl-L-Cysteine Revenue Market Share by Company (2020-2025)

3.3 Global N-Acetyl-L-Cysteine Sale Price by Company

3.4 Key Manufacturers N-Acetyl-L-Cysteine Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers N-Acetyl-L-Cysteine Product Location Distribution

3.4.2 Players N-Acetyl-L-Cysteine Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR N-ACETYL-L-CYSTEINE BY GEOGRAPHIC REGION

4.1 World Historic N-Acetyl-L-Cysteine Market Size by Geographic Region (2020-2025)

4.1.1 Global N-Acetyl-L-Cysteine Annual Sales by Geographic Region (2020-2025)

4.1.2 Global N-Acetyl-L-Cysteine Annual Revenue by Geographic Region (2020-2025)

4.2 World Historic N-Acetyl-L-Cysteine Market Size by Country/Region (2020-2025)

4.2.1 Global N-Acetyl-L-Cysteine Annual Sales by Country/Region (2020-2025)

4.2.2 Global N-Acetyl-L-Cysteine Annual Revenue by Country/Region (2020-2025)

4.3 Americas N-Acetyl-L-Cysteine Sales Growth

4.4 APAC N-Acetyl-L-Cysteine Sales Growth

4.5 Europe N-Acetyl-L-Cysteine Sales Growth

4.6 Middle East & Africa N-Acetyl-L-Cysteine Sales Growth

5 AMERICAS

5.1 Americas N-Acetyl-L-Cysteine Sales by Country

5.1.1 Americas N-Acetyl-L-Cysteine Sales by Country (2020-2025)

5.1.2 Americas N-Acetyl-L-Cysteine Revenue by Country (2020-2025)

5.2 Americas N-Acetyl-L-Cysteine Sales by Type (2020-2025)

5.3 Americas N-Acetyl-L-Cysteine Sales by Application (2020-2025)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC N-Acetyl-L-Cysteine Sales by Region

6.1.1 APAC N-Acetyl-L-Cysteine Sales by Region (2020-2025)

6.1.2 APAC N-Acetyl-L-Cysteine Revenue by Region (2020-2025)

6.2 APAC N-Acetyl-L-Cysteine Sales by Type (2020-2025)

6.3 APAC N-Acetyl-L-Cysteine Sales by Application (2020-2025)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe N-Acetyl-L-Cysteine by Country

7.1.1 Europe N-Acetyl-L-Cysteine Sales by Country (2020-2025)

7.1.2 Europe N-Acetyl-L-Cysteine Revenue by Country (2020-2025)

7.2 Europe N-Acetyl-L-Cysteine Sales by Type (2020-2025)

7.3 Europe N-Acetyl-L-Cysteine Sales by Application (2020-2025)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa N-Acetyl-L-Cysteine by Country

8.1.1 Middle East & Africa N-Acetyl-L-Cysteine Sales by Country (2020-2025)

8.1.2 Middle East & Africa N-Acetyl-L-Cysteine Revenue by Country (2020-2025)

- 8.2 Middle East & Africa N-Acetyl-L-Cysteine Sales by Type (2020-2025)
- 8.3 Middle East & Africa N-Acetyl-L-Cysteine Sales by Application (2020-2025)
- 8.4 Egypt
- 8.5 South Africa
- 8.6 Israel
- 8.7 Turkey
- 8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

- 9.1 Market Drivers & Growth Opportunities
- 9.2 Market Challenges & Risks
- 9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

- 10.1 Raw Material and Suppliers
- 10.2 Manufacturing Cost Structure Analysis of N-Acetyl-L-Cysteine
- 10.3 Manufacturing Process Analysis of N-Acetyl-L-Cysteine
- 10.4 Industry Chain Structure of N-Acetyl-L-Cysteine

11 MARKETING, DISTRIBUTORS AND CUSTOMER

- 11.1 Sales Channel
 - 11.1.1 Direct Channels
 - 11.1.2 Indirect Channels
- 11.2 N-Acetyl-L-Cysteine Distributors
- 11.3 N-Acetyl-L-Cysteine Customer

12 WORLD FORECAST REVIEW FOR N-ACETYL-L-CYSTEINE BY GEOGRAPHIC REGION

- 12.1 Global N-Acetyl-L-Cysteine Market Size Forecast by Region
 - 12.1.1 Global N-Acetyl-L-Cysteine Forecast by Region (2026-2031)
 - 12.1.2 Global N-Acetyl-L-Cysteine Annual Revenue Forecast by Region (2026-2031)
- 12.2 Americas Forecast by Country (2026-2031)
- 12.3 APAC Forecast by Region (2026-2031)
- 12.4 Europe Forecast by Country (2026-2031)
- 12.5 Middle East & Africa Forecast by Country (2026-2031)

12.6 Global N-Acetyl-L-Cysteine Forecast by Type (2026-2031)

12.7 Global N-Acetyl-L-Cysteine Forecast by Application (2026-2031)

13 KEY PLAYERS ANALYSIS

13.1 Zambon

13.1.1 Zambon Company Information

13.1.2 Zambon N-Acetyl-L-Cysteine Product Portfolios and Specifications

13.1.3 Zambon N-Acetyl-L-Cysteine Sales, Revenue, Price and Gross Margin
(2020-2025)

13.1.4 Zambon Main Business Overview

13.1.5 Zambon Latest Developments

13.2 Moehs

13.2.1 Moehs Company Information

13.2.2 Moehs N-Acetyl-L-Cysteine Product Portfolios and Specifications

13.2.3 Moehs N-Acetyl-L-Cysteine Sales, Revenue, Price and Gross Margin
(2020-2025)

13.2.4 Moehs Main Business Overview

13.2.5 Moehs Latest Developments

13.3 Axplora (Pharmazell)

13.3.1 Axplora (Pharmazell) Company Information

13.3.2 Axplora (Pharmazell) N-Acetyl-L-Cysteine Product Portfolios and Specifications

13.3.3 Axplora (Pharmazell) N-Acetyl-L-Cysteine Sales, Revenue, Price and Gross
Margin (2020-2025)

13.3.4 Axplora (Pharmazell) Main Business Overview

13.3.5 Axplora (Pharmazell) Latest Developments

13.4 Nippon Rika

13.4.1 Nippon Rika Company Information

13.4.2 Nippon Rika N-Acetyl-L-Cysteine Product Portfolios and Specifications

13.4.3 Nippon Rika N-Acetyl-L-Cysteine Sales, Revenue, Price and Gross Margin
(2020-2025)

13.4.4 Nippon Rika Main Business Overview

13.4.5 Nippon Rika Latest Developments

13.5 Chengyi Pharma

13.5.1 Chengyi Pharma Company Information

13.5.2 Chengyi Pharma N-Acetyl-L-Cysteine Product Portfolios and Specifications

13.5.3 Chengyi Pharma N-Acetyl-L-Cysteine Sales, Revenue, Price and Gross Margin
(2020-2025)

13.5.4 Chengyi Pharma Main Business Overview

- 13.5.5 Chengyi Pharma Latest Developments
- 13.6 Wuhan Grand Hoyo
 - 13.6.1 Wuhan Grand Hoyo Company Information
 - 13.6.2 Wuhan Grand Hoyo N-Acetyl-L-Cysteine Product Portfolios and Specifications
 - 13.6.3 Wuhan Grand Hoyo N-Acetyl-L-Cysteine Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.6.4 Wuhan Grand Hoyo Main Business Overview
 - 13.6.5 Wuhan Grand Hoyo Latest Developments
- 13.7 Manus Aktteva Biopharma
 - 13.7.1 Manus Aktteva Biopharma Company Information
 - 13.7.2 Manus Aktteva Biopharma N-Acetyl-L-Cysteine Product Portfolios and Specifications
 - 13.7.3 Manus Aktteva Biopharma N-Acetyl-L-Cysteine Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.7.4 Manus Aktteva Biopharma Main Business Overview
 - 13.7.5 Manus Aktteva Biopharma Latest Developments
- 13.8 Shine Star Biological
 - 13.8.1 Shine Star Biological Company Information
 - 13.8.2 Shine Star Biological N-Acetyl-L-Cysteine Product Portfolios and Specifications
 - 13.8.3 Shine Star Biological N-Acetyl-L-Cysteine Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.8.4 Shine Star Biological Main Business Overview
 - 13.8.5 Shine Star Biological Latest Developments
- 13.9 Huachang Pharmaceutical
 - 13.9.1 Huachang Pharmaceutical Company Information
 - 13.9.2 Huachang Pharmaceutical N-Acetyl-L-Cysteine Product Portfolios and Specifications
 - 13.9.3 Huachang Pharmaceutical N-Acetyl-L-Cysteine Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.9.4 Huachang Pharmaceutical Main Business Overview
 - 13.9.5 Huachang Pharmaceutical Latest Developments
- 13.10 Xinhanling Biological
 - 13.10.1 Xinhanling Biological Company Information
 - 13.10.2 Xinhanling Biological N-Acetyl-L-Cysteine Product Portfolios and Specifications
 - 13.10.3 Xinhanling Biological N-Acetyl-L-Cysteine Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.10.4 Xinhanling Biological Main Business Overview
 - 13.10.5 Xinhanling Biological Latest Developments

13.11 Shuguang Biological

13.11.1 Shuguang Biological Company Information

13.11.2 Shuguang Biological N-Acetyl-L-Cysteine Product Portfolios and Specifications

13.11.3 Shuguang Biological N-Acetyl-L-Cysteine Sales, Revenue, Price and Gross Margin (2020-2025)

13.11.4 Shuguang Biological Main Business Overview

13.11.5 Shuguang Biological Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. N-Acetyl-L-Cysteine Annual Sales CAGR by Geographic Region (2020, 2024 & 2031) & (\$ millions)

Table 2. N-Acetyl-L-Cysteine Annual Sales CAGR by Country/Region (2020, 2024 & 2031) & (\$ millions)

Table 3. Major Players of Oral

Table 4. Major Players of Topical

Table 5. Global N-Acetyl-L-Cysteine Sales by Type (2020-2025) & (MT)

Table 6. Global N-Acetyl-L-Cysteine Sales Market Share by Type (2020-2025)

Table 7. Global N-Acetyl-L-Cysteine Revenue by Type (2020-2025) & (\$ million)

Table 8. Global N-Acetyl-L-Cysteine Revenue Market Share by Type (2020-2025)

Table 9. Global N-Acetyl-L-Cysteine Sale Price by Type (2020-2025) & (USD/Kg)

Table 10. Global N-Acetyl-L-Cysteine Sale by Application (2020-2025) & (MT)

Table 11. Global N-Acetyl-L-Cysteine Sale Market Share by Application (2020-2025)

Table 12. Global N-Acetyl-L-Cysteine Revenue by Application (2020-2025) & (\$ million)

Table 13. Global N-Acetyl-L-Cysteine Revenue Market Share by Application (2020-2025)

Table 14. Global N-Acetyl-L-Cysteine Sale Price by Application (2020-2025) & (USD/Kg)

Table 15. Global N-Acetyl-L-Cysteine Sales by Company (2020-2025) & (MT)

Table 16. Global N-Acetyl-L-Cysteine Sales Market Share by Company (2020-2025)

Table 17. Global N-Acetyl-L-Cysteine Revenue by Company (2020-2025) & (\$ millions)

Table 18. Global N-Acetyl-L-Cysteine Revenue Market Share by Company (2020-2025)

Table 19. Global N-Acetyl-L-Cysteine Sale Price by Company (2020-2025) & (USD/Kg)

Table 20. Key Manufacturers N-Acetyl-L-Cysteine Producing Area Distribution and Sales Area

Table 21. Players N-Acetyl-L-Cysteine Products Offered

Table 22. N-Acetyl-L-Cysteine Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)

Table 23. New Products and Potential Entrants

Table 24. Market M&A Activity & Strategy

Table 25. Global N-Acetyl-L-Cysteine Sales by Geographic Region (2020-2025) & (MT)

Table 26. Global N-Acetyl-L-Cysteine Sales Market Share Geographic Region (2020-2025)

Table 27. Global N-Acetyl-L-Cysteine Revenue by Geographic Region (2020-2025) & (\$ millions)

Table 28. Global N-Acetyl-L-Cysteine Revenue Market Share by Geographic Region (2020-2025)

Table 29. Global N-Acetyl-L-Cysteine Sales by Country/Region (2020-2025) & (MT)

Table 30. Global N-Acetyl-L-Cysteine Sales Market Share by Country/Region (2020-2025)

Table 31. Global N-Acetyl-L-Cysteine Revenue by Country/Region (2020-2025) & (\$ millions)

Table 32. Global N-Acetyl-L-Cysteine Revenue Market Share by Country/Region (2020-2025)

Table 33. Americas N-Acetyl-L-Cysteine Sales by Country (2020-2025) & (MT)

Table 34. Americas N-Acetyl-L-Cysteine Sales Market Share by Country (2020-2025)

Table 35. Americas N-Acetyl-L-Cysteine Revenue by Country (2020-2025) & (\$ millions)

Table 36. Americas N-Acetyl-L-Cysteine Sales by Type (2020-2025) & (MT)

Table 37. Americas N-Acetyl-L-Cysteine Sales by Application (2020-2025) & (MT)

Table 38. APAC N-Acetyl-L-Cysteine Sales by Region (2020-2025) & (MT)

Table 39. APAC N-Acetyl-L-Cysteine Sales Market Share by Region (2020-2025)

Table 40. APAC N-Acetyl-L-Cysteine Revenue by Region (2020-2025) & (\$ millions)

Table 41. APAC N-Acetyl-L-Cysteine Sales by Type (2020-2025) & (MT)

Table 42. APAC N-Acetyl-L-Cysteine Sales by Application (2020-2025) & (MT)

Table 43. Europe N-Acetyl-L-Cysteine Sales by Country (2020-2025) & (MT)

Table 44. Europe N-Acetyl-L-Cysteine Revenue by Country (2020-2025) & (\$ millions)

Table 45. Europe N-Acetyl-L-Cysteine Sales by Type (2020-2025) & (MT)

Table 46. Europe N-Acetyl-L-Cysteine Sales by Application (2020-2025) & (MT)

Table 47. Middle East & Africa N-Acetyl-L-Cysteine Sales by Country (2020-2025) & (MT)

Table 48. Middle East & Africa N-Acetyl-L-Cysteine Revenue Market Share by Country (2020-2025)

Table 49. Middle East & Africa N-Acetyl-L-Cysteine Sales by Type (2020-2025) & (MT)

Table 50. Middle East & Africa N-Acetyl-L-Cysteine Sales by Application (2020-2025) & (MT)

Table 51. Key Market Drivers & Growth Opportunities of N-Acetyl-L-Cysteine

Table 52. Key Market Challenges & Risks of N-Acetyl-L-Cysteine

Table 53. Key Industry Trends of N-Acetyl-L-Cysteine

Table 54. N-Acetyl-L-Cysteine Raw Material

Table 55. Key Suppliers of Raw Materials

Table 56. N-Acetyl-L-Cysteine Distributors List

Table 57. N-Acetyl-L-Cysteine Customer List

Table 58. Global N-Acetyl-L-Cysteine Sales Forecast by Region (2026-2031) & (MT)

Table 59. Global N-Acetyl-L-Cysteine Revenue Forecast by Region (2026-2031) & (\$

millions)

Table 60. Americas N-Acetyl-L-Cysteine Sales Forecast by Country (2026-2031) & (MT)

Table 61. Americas N-Acetyl-L-Cysteine Annual Revenue Forecast by Country (2026-2031) & (\$ millions)

Table 62. APAC N-Acetyl-L-Cysteine Sales Forecast by Region (2026-2031) & (MT)

Table 63. APAC N-Acetyl-L-Cysteine Annual Revenue Forecast by Region (2026-2031) & (\$ millions)

Table 64. Europe N-Acetyl-L-Cysteine Sales Forecast by Country (2026-2031) & (MT)

Table 65. Europe N-Acetyl-L-Cysteine Revenue Forecast by Country (2026-2031) & (\$ millions)

Table 66. Middle East & Africa N-Acetyl-L-Cysteine Sales Forecast by Country (2026-2031) & (MT)

Table 67. Middle East & Africa N-Acetyl-L-Cysteine Revenue Forecast by Country (2026-2031) & (\$ millions)

Table 68. Global N-Acetyl-L-Cysteine Sales Forecast by Type (2026-2031) & (MT)

Table 69. Global N-Acetyl-L-Cysteine Revenue Forecast by Type (2026-2031) & (\$ millions)

Table 70. Global N-Acetyl-L-Cysteine Sales Forecast by Application (2026-2031) & (MT)

Table 71. Global N-Acetyl-L-Cysteine Revenue Forecast by Application (2026-2031) & (\$ millions)

Table 72. Zambon Basic Information, N-Acetyl-L-Cysteine Manufacturing Base, Sales Area and Its Competitors

Table 73. Zambon N-Acetyl-L-Cysteine Product Portfolios and Specifications

Table 74. Zambon N-Acetyl-L-Cysteine Sales (MT), Revenue (\$ Million), Price (USD/Kg) and Gross Margin (2020-2025)

Table 75. Zambon Main Business

Table 76. Zambon Latest Developments

Table 77. Moehs Basic Information, N-Acetyl-L-Cysteine Manufacturing Base, Sales Area and Its Competitors

Table 78. Moehs N-Acetyl-L-Cysteine Product Portfolios and Specifications

Table 79. Moehs N-Acetyl-L-Cysteine Sales (MT), Revenue (\$ Million), Price (USD/Kg) and Gross Margin (2020-2025)

Table 80. Moehs Main Business

Table 81. Moehs Latest Developments

Table 82. Axplora (Pharmazell) Basic Information, N-Acetyl-L-Cysteine Manufacturing Base, Sales Area and Its Competitors

Table 83. Axplora (Pharmazell) N-Acetyl-L-Cysteine Product Portfolios and Specifications

Table 84. Axplora (Pharmazell) N-Acetyl-L-Cysteine Sales (MT), Revenue (\$ Million), Price (USD/Kg) and Gross Margin (2020-2025)

Table 85. Axplora (Pharmazell) Main Business

Table 86. Axplora (Pharmazell) Latest Developments

Table 87. Nippon Rika Basic Information, N-Acetyl-L-Cysteine Manufacturing Base, Sales Area and Its Competitors

Table 88. Nippon Rika N-Acetyl-L-Cysteine Product Portfolios and Specifications

Table 89. Nippon Rika N-Acetyl-L-Cysteine Sales (MT), Revenue (\$ Million), Price (USD/Kg) and Gross Margin (2020-2025)

Table 90. Nippon Rika Main Business

Table 91. Nippon Rika Latest Developments

Table 92. Chengyi Pharma Basic Information, N-Acetyl-L-Cysteine Manufacturing Base, Sales Area and Its Competitors

Table 93. Chengyi Pharma N-Acetyl-L-Cysteine Product Portfolios and Specifications

Table 94. Chengyi Pharma N-Acetyl-L-Cysteine Sales (MT), Revenue (\$ Million), Price (USD/Kg) and Gross Margin (2020-2025)

Table 95. Chengyi Pharma Main Business

Table 96. Chengyi Pharma Latest Developments

Table 97. Wuhan Grand Hoyo Basic Information, N-Acetyl-L-Cysteine Manufacturing Base, Sales Area and Its Competitors

Table 98. Wuhan Grand Hoyo N-Acetyl-L-Cysteine Product Portfolios and Specifications

Table 99. Wuhan Grand Hoyo N-Acetyl-L-Cysteine Sales (MT), Revenue (\$ Million), Price (USD/Kg) and Gross Margin (2020-2025)

Table 100. Wuhan Grand Hoyo Main Business

Table 101. Wuhan Grand Hoyo Latest Developments

Table 102. Manus Aktteva Biopharma Basic Information, N-Acetyl-L-Cysteine Manufacturing Base, Sales Area and Its Competitors

Table 103. Manus Aktteva Biopharma N-Acetyl-L-Cysteine Product Portfolios and Specifications

Table 104. Manus Aktteva Biopharma N-Acetyl-L-Cysteine Sales (MT), Revenue (\$ Million), Price (USD/Kg) and Gross Margin (2020-2025)

Table 105. Manus Aktteva Biopharma Main Business

Table 106. Manus Aktteva Biopharma Latest Developments

Table 107. Shine Star Biological Basic Information, N-Acetyl-L-Cysteine Manufacturing Base, Sales Area and Its Competitors

Table 108. Shine Star Biological N-Acetyl-L-Cysteine Product Portfolios and Specifications

Table 109. Shine Star Biological N-Acetyl-L-Cysteine Sales (MT), Revenue (\$ Million),

Price (USD/Kg) and Gross Margin (2020-2025)

Table 110. Shine Star Biological Main Business

Table 111. Shine Star Biological Latest Developments

Table 112. Huachang Pharmaceutical Basic Information, N-Acetyl-L-Cysteine Manufacturing Base, Sales Area and Its Competitors

Table 113. Huachang Pharmaceutical N-Acetyl-L-Cysteine Product Portfolios and Specifications

Table 114. Huachang Pharmaceutical N-Acetyl-L-Cysteine Sales (MT), Revenue (\$ Million), Price (USD/Kg) and Gross Margin (2020-2025)

Table 115. Huachang Pharmaceutical Main Business

Table 116. Huachang Pharmaceutical Latest Developments

Table 117. Xinhanling Biological Basic Information, N-Acetyl-L-Cysteine Manufacturing Base, Sales Area and Its Competitors

Table 118. Xinhanling Biological N-Acetyl-L-Cysteine Product Portfolios and Specifications

Table 119. Xinhanling Biological N-Acetyl-L-Cysteine Sales (MT), Revenue (\$ Million), Price (USD/Kg) and Gross Margin (2020-2025)

Table 120. Xinhanling Biological Main Business

Table 121. Xinhanling Biological Latest Developments

Table 122. Shuguang Biological Basic Information, N-Acetyl-L-Cysteine Manufacturing Base, Sales Area and Its Competitors

Table 123. Shuguang Biological N-Acetyl-L-Cysteine Product Portfolios and Specifications

Table 124. Shuguang Biological N-Acetyl-L-Cysteine Sales (MT), Revenue (\$ Million), Price (USD/Kg) and Gross Margin (2020-2025)

Table 125. Shuguang Biological Main Business

Table 126. Shuguang Biological Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of N-Acetyl-L-Cysteine
- Figure 2. N-Acetyl-L-Cysteine Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global N-Acetyl-L-Cysteine Sales Growth Rate 2020-2031 (MT)
- Figure 7. Global N-Acetyl-L-Cysteine Revenue Growth Rate 2020-2031 (\$ millions)
- Figure 8. N-Acetyl-L-Cysteine Sales by Geographic Region (2020, 2024 & 2031) & (\$ millions)
- Figure 9. N-Acetyl-L-Cysteine Sales Market Share by Country/Region (2024)
- Figure 10. N-Acetyl-L-Cysteine Sales Market Share by Country/Region (2020, 2024 & 2031)
- Figure 11. Product Picture of Oral
- Figure 12. Product Picture of Topical
- Figure 13. Global N-Acetyl-L-Cysteine Sales Market Share by Type in 2025
- Figure 14. Global N-Acetyl-L-Cysteine Revenue Market Share by Type (2020-2025)
- Figure 15. N-Acetyl-L-Cysteine Consumed in Pharmaceutical
- Figure 16. Global N-Acetyl-L-Cysteine Market: Pharmaceutical (2020-2025) & (MT)
- Figure 17. N-Acetyl-L-Cysteine Consumed in Biochemical Research
- Figure 18. Global N-Acetyl-L-Cysteine Market: Biochemical Research (2020-2025) & (MT)
- Figure 19. N-Acetyl-L-Cysteine Consumed in Healthcare Products
- Figure 20. Global N-Acetyl-L-Cysteine Market: Healthcare Products (2020-2025) & (MT)
- Figure 21. N-Acetyl-L-Cysteine Consumed in Others
- Figure 22. Global N-Acetyl-L-Cysteine Market: Others (2020-2025) & (MT)
- Figure 23. Global N-Acetyl-L-Cysteine Sale Market Share by Application (2024)
- Figure 24. Global N-Acetyl-L-Cysteine Revenue Market Share by Application in 2025
- Figure 25. N-Acetyl-L-Cysteine Sales by Company in 2025 (MT)
- Figure 26. Global N-Acetyl-L-Cysteine Sales Market Share by Company in 2025
- Figure 27. N-Acetyl-L-Cysteine Revenue by Company in 2025 (\$ millions)
- Figure 28. Global N-Acetyl-L-Cysteine Revenue Market Share by Company in 2025
- Figure 29. Global N-Acetyl-L-Cysteine Sales Market Share by Geographic Region (2020-2025)
- Figure 30. Global N-Acetyl-L-Cysteine Revenue Market Share by Geographic Region in 2025

- Figure 31. Americas N-Acetyl-L-Cysteine Sales 2020-2025 (MT)
- Figure 32. Americas N-Acetyl-L-Cysteine Revenue 2020-2025 (\$ millions)
- Figure 33. APAC N-Acetyl-L-Cysteine Sales 2020-2025 (MT)
- Figure 34. APAC N-Acetyl-L-Cysteine Revenue 2020-2025 (\$ millions)
- Figure 35. Europe N-Acetyl-L-Cysteine Sales 2020-2025 (MT)
- Figure 36. Europe N-Acetyl-L-Cysteine Revenue 2020-2025 (\$ millions)
- Figure 37. Middle East & Africa N-Acetyl-L-Cysteine Sales 2020-2025 (MT)
- Figure 38. Middle East & Africa N-Acetyl-L-Cysteine Revenue 2020-2025 (\$ millions)
- Figure 39. Americas N-Acetyl-L-Cysteine Sales Market Share by Country in 2025
- Figure 40. Americas N-Acetyl-L-Cysteine Revenue Market Share by Country (2020-2025)
- Figure 41. Americas N-Acetyl-L-Cysteine Sales Market Share by Type (2020-2025)
- Figure 42. Americas N-Acetyl-L-Cysteine Sales Market Share by Application (2020-2025)
- Figure 43. United States N-Acetyl-L-Cysteine Revenue Growth 2020-2025 (\$ millions)
- Figure 44. Canada N-Acetyl-L-Cysteine Revenue Growth 2020-2025 (\$ millions)
- Figure 45. Mexico N-Acetyl-L-Cysteine Revenue Growth 2020-2025 (\$ millions)
- Figure 46. Brazil N-Acetyl-L-Cysteine Revenue Growth 2020-2025 (\$ millions)
- Figure 47. APAC N-Acetyl-L-Cysteine Sales Market Share by Region in 2025
- Figure 48. APAC N-Acetyl-L-Cysteine Revenue Market Share by Region (2020-2025)
- Figure 49. APAC N-Acetyl-L-Cysteine Sales Market Share by Type (2020-2025)
- Figure 50. APAC N-Acetyl-L-Cysteine Sales Market Share by Application (2020-2025)
- Figure 51. China N-Acetyl-L-Cysteine Revenue Growth 2020-2025 (\$ millions)
- Figure 52. Japan N-Acetyl-L-Cysteine Revenue Growth 2020-2025 (\$ millions)
- Figure 53. South Korea N-Acetyl-L-Cysteine Revenue Growth 2020-2025 (\$ millions)
- Figure 54. Southeast Asia N-Acetyl-L-Cysteine Revenue Growth 2020-2025 (\$ millions)
- Figure 55. India N-Acetyl-L-Cysteine Revenue Growth 2020-2025 (\$ millions)
- Figure 56. Australia N-Acetyl-L-Cysteine Revenue Growth 2020-2025 (\$ millions)
- Figure 57. China Taiwan N-Acetyl-L-Cysteine Revenue Growth 2020-2025 (\$ millions)
- Figure 58. Europe N-Acetyl-L-Cysteine Sales Market Share by Country in 2025
- Figure 59. Europe N-Acetyl-L-Cysteine Revenue Market Share by Country (2020-2025)
- Figure 60. Europe N-Acetyl-L-Cysteine Sales Market Share by Type (2020-2025)
- Figure 61. Europe N-Acetyl-L-Cysteine Sales Market Share by Application (2020-2025)
- Figure 62. Germany N-Acetyl-L-Cysteine Revenue Growth 2020-2025 (\$ millions)
- Figure 63. France N-Acetyl-L-Cysteine Revenue Growth 2020-2025 (\$ millions)
- Figure 64. UK N-Acetyl-L-Cysteine Revenue Growth 2020-2025 (\$ millions)
- Figure 65. Italy N-Acetyl-L-Cysteine Revenue Growth 2020-2025 (\$ millions)
- Figure 66. Russia N-Acetyl-L-Cysteine Revenue Growth 2020-2025 (\$ millions)
- Figure 67. Middle East & Africa N-Acetyl-L-Cysteine Sales Market Share by Country

(2020-2025)

Figure 68. Middle East & Africa N-Acetyl-L-Cysteine Sales Market Share by Type
(2020-2025)

Figure 69. Middle East & Africa N-Acetyl-L-Cysteine Sales Market Share by Application
(2020-2025)

Figure 70. Egypt N-Acetyl-L-Cysteine Revenue Growth 2020-2025 (\$ millions)

Figure 71. South Africa N-Acetyl-L-Cysteine Revenue Growth 2020-2025 (\$ millions)

Figure 72. Israel N-Acetyl-L-Cysteine Revenue Growth 2020-2025 (\$ millions)

Figure 73. Turkey N-Acetyl-L-Cysteine Revenue Growth 2020-2025 (\$ millions)

Figure 74. GCC Countries N-Acetyl-L-Cysteine Revenue Growth 2020-2025 (\$ millions)

Figure 75. Manufacturing Cost Structure Analysis of N-Acetyl-L-Cysteine in 2025

Figure 76. Manufacturing Process Analysis of N-Acetyl-L-Cysteine

Figure 77. Industry Chain Structure of N-Acetyl-L-Cysteine

Figure 78. Channels of Distribution

Figure 79. Global N-Acetyl-L-Cysteine Sales Market Forecast by Region (2026-2031)

Figure 80. Global N-Acetyl-L-Cysteine Revenue Market Share Forecast by Region
(2026-2031)

Figure 81. Global N-Acetyl-L-Cysteine Sales Market Share Forecast by Type
(2026-2031)

Figure 82. Global N-Acetyl-L-Cysteine Revenue Market Share Forecast by Type
(2026-2031)

Figure 83. Global N-Acetyl-L-Cysteine Sales Market Share Forecast by Application
(2026-2031)

Figure 84. Global N-Acetyl-L-Cysteine Revenue Market Share Forecast by Application
(2026-2031)

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