

Global Nitroreductase Market Growth 2026-2032

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Abstracts

The global Nitroreductase market size is predicted to grow from US\$ 67.79 million in 2025 to US\$ 121 million in 2032; it is expected to grow at a CAGR of 8.6% from 2026 to 2032.

In 2025, global nitroreductase sales volume was approximately 18 tons, with an average global market price of about USD 3,850/kg. The gross margin of major manufacturers in the industry was approximately 45%-65%.

Nitroreductase is a class of oxidoreductase capable of catalyzing the reduction of the -NO_2 group in organic nitro compounds. It can typically convert aromatic, heterocyclic, or aliphatic nitro substrates into nitroso, hydroxylamine, or amine products. Compared with traditional metal-catalyzed hydrogenation or chemical reduction processes, nitroreductase operates under milder reaction conditions and offers good chemoselectivity and substrate adaptability, helping to reduce over-reduction, side reactions, and the risk of metal residue. It is suitable for the green synthesis of pharmaceutical intermediate, agrochemical intermediate, and high-value fine chemical.

The upstream of nitroreductase mainly includes microbial strain resources, enzyme gene sequences, expression vectors, fermentation media, cofactor recycling systems, immobilization carriers, and enzyme formulation excipients. The midstream involves enzyme screening, directed evolution, fermentation expression, purification, immobilization treatment, and process scale-up. Downstream applications are mainly concentrated in pharmaceutical biocatalysis, agrochemical intermediate, dye and pigment intermediate, and environmental remediation. In pharmaceutical and agrochemical applications, nitroreductase can be used for the selective reduction of nitro-containing intermediates; in the dye and pigment field, it can be used for the preparation of aromatic amine intermediates; and in environmental remediation, it can be used for the biodegradation of nitroaromatic pollutants, nitro-containing wastewater,

and related organic pollutants.

United States market for Nitroreductase is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Nitroreductase is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Nitroreductase is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Nitroreductase players cover Johnson Matthey, Prozomix, Cambrex, SyncoZymes, WuXi STA, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "Nitroreductase Industry Forecast" looks at past sales and reviews total world Nitroreductase sales in 2025, providing a comprehensive analysis by region and market sector of projected Nitroreductase sales for 2026 through 2032. With Nitroreductase sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Nitroreductase industry.

This Insight Report provides a comprehensive analysis of the global Nitroreductase 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 Nitroreductase portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Nitroreductase market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Nitroreductase 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 Nitroreductase.

This report presents a comprehensive overview, market shares, and growth opportunities of Nitroreductase market by product type, application, key manufacturers

and key regions and countries.

Segmentation by Type:

Aromatic Nitroreductase

Heterocyclic Nitroreductase

Aliphatic Nitroreductase

Segmentation by Catalytic Mechanism:

Oxygen-insensitive Type

Oxygen-sensitive Type

Segmentation by Form:

Free Enzyme Preparation

Immobilized Enzyme Preparation

Whole-cell Catalyst

Segmentation by Application:

Pharmaceutical Biocatalysis

Agrochemical Intermediate

Dye and Pigment Intermediate

Environmental Remediation

Other

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.

Johnson Matthey

Prozomix

Cambrex

SyncoZymes

WuXi STA

Tianjin Bio-Pharmacn Biotechnology

Key Questions Addressed in this Report

What is the 10-year outlook for the global Nitroreductase market?

What factors are driving Nitroreductase market growth, globally and by region?

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

How do Nitroreductase market opportunities vary by end market size?

How does Nitroreductase 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 Nitroreductase Annual Sales 2021-2032
 - 2.1.2 World Current & Future Analysis for Nitroreductase by Geographic Region, 2021, 2025 & 2032
 - 2.1.3 World Current & Future Analysis for Nitroreductase by Country/Region, 2021, 2025 & 2032
- 2.2 Nitroreductase Segment by Type
 - 2.2.1 Aromatic Nitroreductase
 - 2.2.2 Heterocyclic Nitroreductase
 - 2.2.3 Aliphatic Nitroreductase
 - 2.2.4 Nitroreductase Sales by Type
 - 2.2.4.1 Global Nitroreductase Sales Market Share by Type (2021-2026)
 - 2.2.4.2 Global Nitroreductase Revenue and Market Share by Type (2021-2026)
 - 2.2.4.3 Global Nitroreductase Sale Price by Type (2021-2026)
- 2.3 Nitroreductase Segment by Catalytic Mechanism
 - 2.3.1 Oxygen-insensitive Type
 - 2.3.2 Oxygen-sensitive Type
 - 2.3.3 Nitroreductase Sales by Catalytic Mechanism
 - 2.3.3.1 Global Nitroreductase Sales Market Share by Catalytic Mechanism (2021-2026)
 - 2.3.3.2 Global Nitroreductase Revenue and Market Share by Catalytic Mechanism (2021-2026)
 - 2.3.3.3 Global Nitroreductase Sale Price by Catalytic Mechanism (2021-2026)
- 2.4 Nitroreductase Segment by Form

- 2.4.1 Free Enzyme Preparation
- 2.4.2 Immobilized Enzyme Preparation
- 2.4.3 Whole-cell Catalyst
- 2.4.4 Nitroreductase Sales by Form
 - 2.4.4.1 Global Nitroreductase Sales Market Share by Form (2021-2026)
 - 2.4.4.2 Global Nitroreductase Revenue and Market Share by Form (2021-2026)
 - 2.4.4.3 Global Nitroreductase Sale Price by Form (2021-2026)
- 2.5 Nitroreductase Segment by Application
 - 2.5.1 Pharmaceutical Biocatalysis
 - 2.5.2 Agrochemical Intermediate
 - 2.5.3 Dye and Pigment Intermediate
 - 2.5.4 Environmental Remediation
 - 2.5.5 Other
 - 2.5.6 Nitroreductase Sales by Application
 - 2.5.6.1 Global Nitroreductase Sale Market Share by Application (2021-2026)
 - 2.5.6.2 Global Nitroreductase Revenue and Market Share by Application (2021-2026)
 - 2.5.6.3 Global Nitroreductase Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

- 3.1 Global Nitroreductase Breakdown Data by Company
 - 3.1.1 Global Nitroreductase Annual Sales by Company (2021-2026)
 - 3.1.2 Global Nitroreductase Sales Market Share by Company (2021-2026)
- 3.2 Global Nitroreductase Annual Revenue by Company (2021-2026)
 - 3.2.1 Global Nitroreductase Revenue by Company (2021-2026)
 - 3.2.2 Global Nitroreductase Revenue Market Share by Company (2021-2026)
- 3.3 Global Nitroreductase Sale Price by Company
- 3.4 Key Manufacturers Nitroreductase Producing Area Distribution, Sales Area, Product Type
 - 3.4.1 Key Manufacturers Nitroreductase Product Location Distribution
 - 3.4.2 Players Nitroreductase Products Offered
- 3.5 Market Concentration Rate Analysis
 - 3.5.1 Competition Landscape Analysis
 - 3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
- 3.6 New Products and Potential Entrants
- 3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR NITROREDUCTASE BY GEOGRAPHIC REGION

- 4.1 World Historic Nitroreductase Market Size by Geographic Region (2021-2026)
 - 4.1.1 Global Nitroreductase Annual Sales by Geographic Region (2021-2026)
 - 4.1.2 Global Nitroreductase Annual Revenue by Geographic Region (2021-2026)
- 4.2 World Historic Nitroreductase Market Size by Country/Region (2021-2026)
 - 4.2.1 Global Nitroreductase Annual Sales by Country/Region (2021-2026)
 - 4.2.2 Global Nitroreductase Annual Revenue by Country/Region (2021-2026)
- 4.3 Americas Nitroreductase Sales Growth
- 4.4 APAC Nitroreductase Sales Growth
- 4.5 Europe Nitroreductase Sales Growth
- 4.6 Middle East & Africa Nitroreductase Sales Growth

5 AMERICAS

- 5.1 Americas Nitroreductase Sales by Country
 - 5.1.1 Americas Nitroreductase Sales by Country (2021-2026)
 - 5.1.2 Americas Nitroreductase Revenue by Country (2021-2026)
- 5.2 Americas Nitroreductase Sales by Type (2021-2026)
- 5.3 Americas Nitroreductase Sales by Application (2021-2026)
- 5.4 United States
- 5.5 Canada
- 5.6 Mexico
- 5.7 Brazil

6 APAC

- 6.1 APAC Nitroreductase Sales by Region
 - 6.1.1 APAC Nitroreductase Sales by Region (2021-2026)
 - 6.1.2 APAC Nitroreductase Revenue by Region (2021-2026)
- 6.2 APAC Nitroreductase Sales by Type (2021-2026)
- 6.3 APAC Nitroreductase Sales by Application (2021-2026)
- 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 Nitroreductase by Country

7.1.1 Europe Nitroreductase Sales by Country (2021-2026)

7.1.2 Europe Nitroreductase Revenue by Country (2021-2026)

7.2 Europe Nitroreductase Sales by Type (2021-2026)

7.3 Europe Nitroreductase Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Nitroreductase by Country

8.1.1 Middle East & Africa Nitroreductase Sales by Country (2021-2026)

8.1.2 Middle East & Africa Nitroreductase Revenue by Country (2021-2026)

8.2 Middle East & Africa Nitroreductase Sales by Type (2021-2026)

8.3 Middle East & Africa Nitroreductase Sales by Application (2021-2026)

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 Nitroreductase

10.3 Manufacturing Process Analysis of Nitroreductase

10.4 Industry Chain Structure of Nitroreductase

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Nitroreductase Distributors

11.3 Nitroreductase Customer

12 WORLD FORECAST REVIEW FOR NITROREDUCTASE BY GEOGRAPHIC REGION

12.1 Global Nitroreductase Market Size Forecast by Region

12.1.1 Global Nitroreductase Forecast by Region (2027-2032)

12.1.2 Global Nitroreductase Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global Nitroreductase Forecast by Type (2027-2032)

12.7 Global Nitroreductase Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Johnson Matthey

13.1.1 Johnson Matthey Company Information

13.1.2 Johnson Matthey Nitroreductase Product Portfolios and Specifications

13.1.3 Johnson Matthey Nitroreductase Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 Johnson Matthey Main Business Overview

13.1.5 Johnson Matthey Latest Developments

13.2 Prozomix

13.2.1 Prozomix Company Information

13.2.2 Prozomix Nitroreductase Product Portfolios and Specifications

13.2.3 Prozomix Nitroreductase Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Prozomix Main Business Overview

13.2.5 Prozomix Latest Developments

13.3 Cambrex

13.3.1 Cambrex Company Information

13.3.2 Cambrex Nitroreductase Product Portfolios and Specifications

13.3.3 Cambrex Nitroreductase Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 Cambrex Main Business Overview

13.3.5 Cambrex Latest Developments

13.4 SyncoZymes

13.4.1 SyncoZymes Company Information

13.4.2 SyncoZymes Nitroreductase Product Portfolios and Specifications

13.4.3 SyncoZymes Nitroreductase Sales, Revenue, Price and Gross Margin

(2021-2026)

13.4.4 SyncoZymes Main Business Overview

13.4.5 SyncoZymes Latest Developments

13.5 WuXi STA

13.5.1 WuXi STA Company Information

13.5.2 WuXi STA Nitroreductase Product Portfolios and Specifications

13.5.3 WuXi STA Nitroreductase Sales, Revenue, Price and Gross Margin

(2021-2026)

13.5.4 WuXi STA Main Business Overview

13.5.5 WuXi STA Latest Developments

13.6 Tianjin Bio-Pharmacn Biotechnology

13.6.1 Tianjin Bio-Pharmacn Biotechnology Company Information

13.6.2 Tianjin Bio-Pharmacn Biotechnology Nitroreductase Product Portfolios and Specifications

13.6.3 Tianjin Bio-Pharmacn Biotechnology Nitroreductase Sales, Revenue, Price and Gross Margin (2021-2026)

13.6.4 Tianjin Bio-Pharmacn Biotechnology Main Business Overview

13.6.5 Tianjin Bio-Pharmacn Biotechnology Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Nitroreductase Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Nitroreductase Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Aromatic Nitroreductase

Table 4. Major Players of Heterocyclic Nitroreductase

Table 5. Major Players of Aliphatic Nitroreductase

Table 6. Global Nitroreductase Sales by Type (2021-2026) & (Tons)

Table 7. Global Nitroreductase Sales Market Share by Type (2021-2026)

Table 8. Global Nitroreductase Revenue by Type (2021-2026) & (\$ million)

Table 9. Global Nitroreductase Revenue Market Share by Type (2021-2026)

Table 10. Global Nitroreductase Sale Price by Type (2021-2026) & (US\$/kg)

Table 11. Major Players of Oxygen-insensitive Type

Table 12. Major Players of Oxygen-sensitive Type

Table 13. Global Nitroreductase Sales by Catalytic Mechanism (2021-2026) & (Tons)

Table 14. Global Nitroreductase Sales Market Share by Catalytic Mechanism (2021-2026)

Table 15. Global Nitroreductase Revenue by Catalytic Mechanism (2021-2026) & (\$ million)

Table 16. Global Nitroreductase Revenue Market Share by Catalytic Mechanism (2021-2026)

Table 17. Global Nitroreductase Sale Price by Catalytic Mechanism (2021-2026) & (US\$/kg)

Table 18. Major Players of Free Enzyme Preparation

Table 19. Major Players of Immobilized Enzyme Preparation

Table 20. Major Players of Whole-cell Catalyst

Table 21. Global Nitroreductase Sales by Form (2021-2026) & (Tons)

Table 22. Global Nitroreductase Sales Market Share by Form (2021-2026)

Table 23. Global Nitroreductase Revenue by Form (2021-2026) & (\$ million)

Table 24. Global Nitroreductase Revenue Market Share by Form (2021-2026)

Table 25. Global Nitroreductase Sale Price by Form (2021-2026) & (US\$/kg)

Table 26. Global Nitroreductase Sale by Application (2021-2026) & (Tons)

Table 27. Global Nitroreductase Sale Market Share by Application (2021-2026)

Table 28. Global Nitroreductase Revenue by Application (2021-2026) & (\$ million)

Table 29. Global Nitroreductase Revenue Market Share by Application (2021-2026)

Table 30. Global Nitroreductase Sale Price by Application (2021-2026) & (US\$/kg)
Table 31. Global Nitroreductase Sales by Company (2021-2026) & (Tons)
Table 32. Global Nitroreductase Sales Market Share by Company (2021-2026)
Table 33. Global Nitroreductase Revenue by Company (2021-2026) & (\$ millions)
Table 34. Global Nitroreductase Revenue Market Share by Company (2021-2026)
Table 35. Global Nitroreductase Sale Price by Company (2021-2026) & (US\$/kg)
Table 36. Key Manufacturers Nitroreductase Producing Area Distribution and Sales Area
Table 37. Players Nitroreductase Products Offered
Table 38. Nitroreductase Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
Table 39. New Products and Potential Entrants
Table 40. Market M&A Activity & Strategy
Table 41. Global Nitroreductase Sales by Geographic Region (2021-2026) & (Tons)
Table 42. Global Nitroreductase Sales Market Share Geographic Region (2021-2026)
Table 43. Global Nitroreductase Revenue by Geographic Region (2021-2026) & (\$ millions)
Table 44. Global Nitroreductase Revenue Market Share by Geographic Region (2021-2026)
Table 45. Global Nitroreductase Sales by Country/Region (2021-2026) & (Tons)
Table 46. Global Nitroreductase Sales Market Share by Country/Region (2021-2026)
Table 47. Global Nitroreductase Revenue by Country/Region (2021-2026) & (\$ millions)
Table 48. Global Nitroreductase Revenue Market Share by Country/Region (2021-2026)
Table 49. Americas Nitroreductase Sales by Country (2021-2026) & (Tons)
Table 50. Americas Nitroreductase Sales Market Share by Country (2021-2026)
Table 51. Americas Nitroreductase Revenue by Country (2021-2026) & (\$ millions)
Table 52. Americas Nitroreductase Sales by Type (2021-2026) & (Tons)
Table 53. Americas Nitroreductase Sales by Application (2021-2026) & (Tons)
Table 54. APAC Nitroreductase Sales by Region (2021-2026) & (Tons)
Table 55. APAC Nitroreductase Sales Market Share by Region (2021-2026)
Table 56. APAC Nitroreductase Revenue by Region (2021-2026) & (\$ millions)
Table 57. APAC Nitroreductase Sales by Type (2021-2026) & (Tons)
Table 58. APAC Nitroreductase Sales by Application (2021-2026) & (Tons)
Table 59. Europe Nitroreductase Sales by Country (2021-2026) & (Tons)
Table 60. Europe Nitroreductase Revenue by Country (2021-2026) & (\$ millions)
Table 61. Europe Nitroreductase Sales by Type (2021-2026) & (Tons)
Table 62. Europe Nitroreductase Sales by Application (2021-2026) & (Tons)
Table 63. Middle East & Africa Nitroreductase Sales by Country (2021-2026) & (Tons)
Table 64. Middle East & Africa Nitroreductase Revenue Market Share by Country (2021-2026)

Table 65. Middle East & Africa Nitroreductase Sales by Type (2021-2026) & (Tons)

Table 66. Middle East & Africa Nitroreductase Sales by Application (2021-2026) & (Tons)

Table 67. Key Market Drivers & Growth Opportunities of Nitroreductase

Table 68. Key Market Challenges & Risks of Nitroreductase

Table 69. Key Industry Trends of Nitroreductase

Table 70. Nitroreductase Raw Material

Table 71. Key Suppliers of Raw Materials

Table 72. Nitroreductase Distributors List

Table 73. Nitroreductase Customer List

Table 74. Global Nitroreductase Sales Forecast by Region (2027-2032) & (Tons)

Table 75. Global Nitroreductase Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 76. Americas Nitroreductase Sales Forecast by Country (2027-2032) & (Tons)

Table 77. Americas Nitroreductase Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 78. APAC Nitroreductase Sales Forecast by Region (2027-2032) & (Tons)

Table 79. APAC Nitroreductase Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 80. Europe Nitroreductase Sales Forecast by Country (2027-2032) & (Tons)

Table 81. Europe Nitroreductase Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 82. Middle East & Africa Nitroreductase Sales Forecast by Country (2027-2032) & (Tons)

Table 83. Middle East & Africa Nitroreductase Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 84. Global Nitroreductase Sales Forecast by Type (2027-2032) & (Tons)

Table 85. Global Nitroreductase Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 86. Global Nitroreductase Sales Forecast by Application (2027-2032) & (Tons)

Table 87. Global Nitroreductase Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 88. Johnson Matthey Basic Information, Nitroreductase Manufacturing Base, Sales Area and Its Competitors

Table 89. Johnson Matthey Nitroreductase Product Portfolios and Specifications

Table 90. Johnson Matthey Nitroreductase Sales (Tons), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 91. Johnson Matthey Main Business

Table 92. Johnson Matthey Latest Developments

Table 93. Prozomix Basic Information, Nitroreductase Manufacturing Base, Sales Area

and Its Competitors

Table 94. Prozomix Nitroreductase Product Portfolios and Specifications

Table 95. Prozomix Nitroreductase Sales (Tons), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 96. Prozomix Main Business

Table 97. Prozomix Latest Developments

Table 98. Cambrex Basic Information, Nitroreductase Manufacturing Base, Sales Area and Its Competitors

Table 99. Cambrex Nitroreductase Product Portfolios and Specifications

Table 100. Cambrex Nitroreductase Sales (Tons), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 101. Cambrex Main Business

Table 102. Cambrex Latest Developments

Table 103. SyncoZymes Basic Information, Nitroreductase Manufacturing Base, Sales Area and Its Competitors

Table 104. SyncoZymes Nitroreductase Product Portfolios and Specifications

Table 105. SyncoZymes Nitroreductase Sales (Tons), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 106. SyncoZymes Main Business

Table 107. SyncoZymes Latest Developments

Table 108. WuXi STA Basic Information, Nitroreductase Manufacturing Base, Sales Area and Its Competitors

Table 109. WuXi STA Nitroreductase Product Portfolios and Specifications

Table 110. WuXi STA Nitroreductase Sales (Tons), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 111. WuXi STA Main Business

Table 112. WuXi STA Latest Developments

Table 113. Tianjin Bio-Pharmacn Biotechnology Basic Information, Nitroreductase Manufacturing Base, Sales Area and Its Competitors

Table 114. Tianjin Bio-Pharmacn Biotechnology Nitroreductase Product Portfolios and Specifications

Table 115. Tianjin Bio-Pharmacn Biotechnology Nitroreductase Sales (Tons), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 116. Tianjin Bio-Pharmacn Biotechnology Main Business

Table 117. Tianjin Bio-Pharmacn Biotechnology Latest Developments

List Of Figures

LIST OF FIGURES

Figure 1. Picture of Nitroreductase

Figure 2. Nitroreductase Report Years Considered

Figure 3. Research Objectives

Figure 4. Research Methodology

Figure 5. Research Process and Data Source

Figure 6. Global Nitroreductase Sales Growth Rate 2021-2032 (Tons)

Figure 7. Global Nitroreductase Revenue Growth Rate 2021-2032 (\$ millions)

Figure 8. Nitroreductase Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Figure 9. Nitroreductase Sales Market Share by Country/Region (2025)

Figure 10. Nitroreductase Sales Market Share by Country/Region (2021, 2025 & 2032)

Figure 11. Product Picture of Aromatic Nitroreductase

Figure 12. Product Picture of Heterocyclic Nitroreductase

Figure 13. Product Picture of Aliphatic Nitroreductase

Figure 14. Global Nitroreductase Sales Market Share by Type in 2026

Figure 15. Global Nitroreductase Revenue Market Share by Type (2021-2026)

Figure 16. Product Picture of Oxygen-insensitive Type

Figure 17. Product Picture of Oxygen-sensitive Type

Figure 18. Global Nitroreductase Sales Market Share by Catalytic Mechanism in 2026

Figure 19. Global Nitroreductase Revenue Market Share by Catalytic Mechanism (2021-2026)

Figure 20. Product Picture of Free Enzyme Preparation

Figure 21. Product Picture of Immobilized Enzyme Preparation

Figure 22. Product Picture of Whole-cell Catalyst

Figure 23. Global Nitroreductase Sales Market Share by Form in 2026

Figure 24. Global Nitroreductase Revenue Market Share by Form (2021-2026)

Figure 25. Nitroreductase Consumed in Pharmaceutical Biocatalysis

Figure 26. Global Nitroreductase Market: Pharmaceutical Biocatalysis (2021-2026) & (Tons)

Figure 27. Nitroreductase Consumed in Agrochemical Intermediate

Figure 28. Global Nitroreductase Market: Agrochemical Intermediate (2021-2026) & (Tons)

Figure 29. Nitroreductase Consumed in Dye and Pigment Intermediate

Figure 30. Global Nitroreductase Market: Dye and Pigment Intermediate (2021-2026) & (Tons)

- Figure 31. Nitroreductase Consumed in Environmental Remediation
- Figure 32. Global Nitroreductase Market: Environmental Remediation (2021-2026) & (Tons)
- Figure 33. Nitroreductase Consumed in Other
- Figure 34. Global Nitroreductase Market: Other (2021-2026) & (Tons)
- Figure 35. Global Nitroreductase Sale Market Share by Application (2025)
- Figure 36. Global Nitroreductase Revenue Market Share by Application in 2025
- Figure 37. Nitroreductase Sales by Company in 2025 (Tons)
- Figure 38. Global Nitroreductase Sales Market Share by Company in 2025
- Figure 39. Nitroreductase Revenue by Company in 2025 (\$ millions)
- Figure 40. Global Nitroreductase Revenue Market Share by Company in 2025
- Figure 41. Global Nitroreductase Sales Market Share by Geographic Region (2021-2026)
- Figure 42. Global Nitroreductase Revenue Market Share by Geographic Region in 2025
- Figure 43. Americas Nitroreductase Sales 2021-2026 (Tons)
- Figure 44. Americas Nitroreductase Revenue 2021-2026 (\$ millions)
- Figure 45. APAC Nitroreductase Sales 2021-2026 (Tons)
- Figure 46. APAC Nitroreductase Revenue 2021-2026 (\$ millions)
- Figure 47. Europe Nitroreductase Sales 2021-2026 (Tons)
- Figure 48. Europe Nitroreductase Revenue 2021-2026 (\$ millions)
- Figure 49. Middle East & Africa Nitroreductase Sales 2021-2026 (Tons)
- Figure 50. Middle East & Africa Nitroreductase Revenue 2021-2026 (\$ millions)
- Figure 51. Americas Nitroreductase Sales Market Share by Country in 2025
- Figure 52. Americas Nitroreductase Revenue Market Share by Country (2021-2026)
- Figure 53. Americas Nitroreductase Sales Market Share by Type (2021-2026)
- Figure 54. Americas Nitroreductase Sales Market Share by Application (2021-2026)
- Figure 55. United States Nitroreductase Revenue Growth 2021-2026 (\$ millions)
- Figure 56. Canada Nitroreductase Revenue Growth 2021-2026 (\$ millions)
- Figure 57. Mexico Nitroreductase Revenue Growth 2021-2026 (\$ millions)
- Figure 58. Brazil Nitroreductase Revenue Growth 2021-2026 (\$ millions)
- Figure 59. APAC Nitroreductase Sales Market Share by Region in 2025
- Figure 60. APAC Nitroreductase Revenue Market Share by Region (2021-2026)
- Figure 61. APAC Nitroreductase Sales Market Share by Type (2021-2026)
- Figure 62. APAC Nitroreductase Sales Market Share by Application (2021-2026)
- Figure 63. China Nitroreductase Revenue Growth 2021-2026 (\$ millions)
- Figure 64. Japan Nitroreductase Revenue Growth 2021-2026 (\$ millions)
- Figure 65. South Korea Nitroreductase Revenue Growth 2021-2026 (\$ millions)
- Figure 66. Southeast Asia Nitroreductase Revenue Growth 2021-2026 (\$ millions)
- Figure 67. India Nitroreductase Revenue Growth 2021-2026 (\$ millions)

- Figure 68. Australia Nitroreductase Revenue Growth 2021-2026 (\$ millions)
- Figure 69. China Taiwan Nitroreductase Revenue Growth 2021-2026 (\$ millions)
- Figure 70. Europe Nitroreductase Sales Market Share by Country in 2025
- Figure 71. Europe Nitroreductase Revenue Market Share by Country (2021-2026)
- Figure 72. Europe Nitroreductase Sales Market Share by Type (2021-2026)
- Figure 73. Europe Nitroreductase Sales Market Share by Application (2021-2026)
- Figure 74. Germany Nitroreductase Revenue Growth 2021-2026 (\$ millions)
- Figure 75. France Nitroreductase Revenue Growth 2021-2026 (\$ millions)
- Figure 76. UK Nitroreductase Revenue Growth 2021-2026 (\$ millions)
- Figure 77. Italy Nitroreductase Revenue Growth 2021-2026 (\$ millions)
- Figure 78. Russia Nitroreductase Revenue Growth 2021-2026 (\$ millions)
- Figure 79. Middle East & Africa Nitroreductase Sales Market Share by Country (2021-2026)
- Figure 80. Middle East & Africa Nitroreductase Sales Market Share by Type (2021-2026)
- Figure 81. Middle East & Africa Nitroreductase Sales Market Share by Application (2021-2026)
- Figure 82. Egypt Nitroreductase Revenue Growth 2021-2026 (\$ millions)
- Figure 83. South Africa Nitroreductase Revenue Growth 2021-2026 (\$ millions)
- Figure 84. Israel Nitroreductase Revenue Growth 2021-2026 (\$ millions)
- Figure 85. Turkey Nitroreductase Revenue Growth 2021-2026 (\$ millions)
- Figure 86. GCC Countries Nitroreductase Revenue Growth 2021-2026 (\$ millions)
- Figure 87. Manufacturing Cost Structure Analysis of Nitroreductase in 2026
- Figure 88. Manufacturing Process Analysis of Nitroreductase
- Figure 89. Industry Chain Structure of Nitroreductase
- Figure 90. Channels of Distribution
- Figure 91. Global Nitroreductase Sales Market Forecast by Region (2027-2032)
- Figure 92. Global Nitroreductase Revenue Market Share Forecast by Region (2027-2032)
- Figure 93. Global Nitroreductase Sales Market Share Forecast by Type (2027-2032)
- Figure 94. Global Nitroreductase Revenue Market Share Forecast by Type (2027-2032)
- Figure 95. Global Nitroreductase Sales Market Share Forecast by Application (2027-2032)
- Figure 96. Global Nitroreductase Revenue Market Share Forecast by Application (2027-2032)

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