

Global Nitroreductase Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Nitroreductase market size was valued at US\$ 71.31 million in 2025 and is forecast to a readjusted size of US\$ 123 million by 2032 with a CAGR of 8.1% during review period.

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? 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.

This report is a detailed and comprehensive analysis for global Nitroreductase 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 Nitroreductase market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2021-2032

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

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

Global Nitroreductase market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), 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 Nitroreductase

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 Nitroreductase 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 Johnson Matthey, Prozomix, Cambrex, SyncoZymes, WuXi STA, Tianjin Bio-Pharmacn Biotechnology, etc.

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

Market Segmentation

Nitroreductase 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

- Aromatic Nitroreductase

- Heterocyclic Nitroreductase

- Aliphatic Nitroreductase

Market segment by Catalytic Mechanism

- Oxygen-insensitive Type

- Oxygen-sensitive Type

Market segment by Form

- Free Enzyme Preparation

- Immobilized Enzyme Preparation

- Whole-cell Catalyst

Market segment by Application

Pharmaceutical Biocatalysis

Agrochemical Intermediate

Dye and Pigment Intermediate

Environmental Remediation

Other

Major players covered

Johnson Matthey

Prozomix

Cambrex

SyncoZymes

WuXi STA

Tianjin Bio-Pharmacn Biotechnology

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 Nitroreductase product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Nitroreductase, with price, sales quantity, revenue, and global market share of Nitroreductase from 2021 to 2026.

Chapter 3, the Nitroreductase competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Nitroreductase 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 Nitroreductase 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 Nitroreductase.

Chapter 14 and 15, to describe Nitroreductase sales channel, distributors, customers, research findings and conclusion.

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