

Global Nitroreductase Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G15705E5F6F1EN.html>

Date: July 2026

Pages: 102

Price: US\$ 4,480.00 (Single User License)

ID: G15705E5F6F1EN

Abstracts

The global Nitroreductase market size is expected to reach \$ 123 million by 2032, rising at a market growth of 8.1% CAGR during the forecast period (2026-2032).

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 -NO₂ 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 studies the global Nitroreductase production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Nitroreductase and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Nitroreductase that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Nitroreductase total production and demand, 2021-2032, (Tons)

Global Nitroreductase total production value, 2021-2032, (USD Million)

Global Nitroreductase production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Nitroreductase consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Nitroreductase domestic production, consumption, key domestic manufacturers and share

Global Nitroreductase production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Nitroreductase production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Nitroreductase production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Nitroreductase market based on the following parameters - company overview, production, value, 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-Pharmaceutical Biotechnology, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Nitroreductase market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/kg) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Nitroreductase Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Nitroreductase Market, Segmentation by Type:

Aromatic Nitroreductase

Heterocyclic Nitroreductase

Aliphatic Nitroreductase

Global Nitroreductase Market, Segmentation by Catalytic Mechanism:

Oxygen-insensitive Type

Oxygen-sensitive Type

Global Nitroreductase Market, Segmentation by Form:

Free Enzyme Preparation

Immobilized Enzyme Preparation

Whole-cell Catalyst

Global Nitroreductase Market, Segmentation by Application:

Pharmaceutical Biocatalysis

Agrochemical Intermediate

Dye and Pigment Intermediate

Environmental Remediation

Other

Companies Profiled:

Johnson Matthey

Prozomix

Cambrex

SyncoZymes

WuXi STA

Tianjin Bio-Pharmcn Biotechnology

Key Questions Answered:

1. How big is the global Nitroreductase market?
2. What is the demand of the global Nitroreductase market?
3. What is the year over year growth of the global Nitroreductase market?
4. What is the production and production value of the global Nitroreductase market?
5. Who are the key producers in the global Nitroreductase market?
6. What are the growth factors driving the market demand?

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