

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

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Abstracts

The global Nitrilase market size is expected to reach \$ 90.59 million by 2032, rising at a market growth of 7.4% CAGR during the forecast period (2026-2032).

In 2025, global nitrilase sales volume was approximately 15 tons, with an average global market price of about USD 3,550/kg. The gross margin of major manufacturers in the industry was approximately 45%-65%.

Nitrilase is a type of biocatalytic enzyme that directly hydrolyzes the $-CN$ group in nitrile compounds to produce carboxylic acids and ammonia, and is an important category within nitrile-converting enzymes. Compared with conventional strong acid, strong alkali, or high-temperature hydrolysis processes, nitrilase enables milder reaction conditions and can usually operate in aqueous systems under neutral, weakly acidic, or weakly alkaline conditions. It offers advantages such as high selectivity, fewer side reactions, and lower environmental burden. Due to differences in enzyme source and engineering modification, different nitrilases vary significantly in substrate scope, chiral selectivity, regioselectivity, thermal stability, and pH tolerance. Commercial products are generally supplied in forms such as free enzyme preparation, immobilized enzyme preparation, and whole-cell catalyst.

The upstream of nitrilase mainly includes microbial strain resources, gene sequences, expression vectors, fermentation media, enzyme engineering technologies, 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, specialty fine chemical, and environmental remediation. In pharmaceutical and CDMO applications,

nitrilase can be used for the green synthesis of chiral carboxylic acids, aromatic carboxylic acids, heterocyclic carboxylic acids, and other API intermediates. In agrochemical and specialty fine chemical applications, it is used for selective transformation of nitrile-containing substrates, replacing part of traditional chemical hydrolysis routes. In environmental remediation, nitrilase can be used for nitrile wastewater treatment and degradation of nitrile-containing pollutants.

This report studies the global Nitrilase production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Nitrilase 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 Nitrilase that contribute to its increasing demand across many markets.

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Nitrilase 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 Codexis, Almac Group, Prozomix, Cambrex, c-LEcta, Amano Enzyme, SyncoZymes, Nanjing Predicta Biotechnology, WuXi STA, 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 Nitrilase 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 Nitrilase Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Nitrilase Market, Segmentation by Type:

Aliphatic Nitrilase

Aromatic Nitrilase

Heterocyclic Nitrilase

Global Nitrilase Market, Segmentation by Catalytic Selectivity:

General Hydrolysis

Chiral Selectivity

Regioselectivity

Global Nitrilase Market, Segmentation by Form:

Free Enzyme Preparation

Immobilized Enzyme Preparation

Whole-cell Catalyst

Global Nitrilase Market, Segmentation by Application:

Pharmaceutical Biocatalysis

Agrochemical Intermediate

Specialty Fine Chemical

Environmental Remediation

Other

Companies Profiled:

Codexis

Almac Group

Prozomix

Cambrex

c-LEcta

Amano Enzyme

SyncoZymes

Nanjing Predictive Biotechnology

WuXi STA

Key Questions Answered:

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

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