

Global Amine Dehydrogenase Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G79C952ED9D7EN.html>

Date: July 2026

Pages: 89

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

ID: G79C952ED9D7EN

Abstracts

The global Amine Dehydrogenase market size is expected to reach \$ 115 million by 2032, rising at a market growth of 8.2% CAGR during the forecast period (2026-2032).

In 2025, global amine dehydrogenase(AmDH) sales volume was approximately 12 tons, with an average global market price of about USD 5,350/kg. The gross margin of major manufacturers in the industry was approximately 45%-65%.

Amine dehydrogenase is a class of oxidoreductase capable of catalyzing the reductive amination of ketone or aldehyde substrates with an ammonia source to produce amine compounds. The reaction usually depends on cofactors such as NADH or NADPH. Compared with transaminase and imine reductase, amine dehydrogenase can directly use ammonia or ammonium salts as the nitrogen source, converting carbonyl compounds into chiral amines or amine-containing intermediates in a single step, with relatively simple by-products and high atom economy. Due to its mild reaction conditions, good selectivity, and low risk of metal residue, amine dehydrogenase has strong application value in the green synthesis of chiral amines, API intermediates, and high-value fine chemicals.

The upstream of amine dehydrogenase 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, and specialty fine chemical. In pharmaceutical and CDMO applications, amine dehydrogenase can be used for the preparation of chiral amines, heterocyclic amines, aryl amine derivatives,

and API intermediates. In agrochemical and specialty fine chemical applications, it can be used for the synthesis of amine-containing structural fragments, functional amine compounds, and customized high-value intermediates.

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

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Amine Dehydrogenase 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, Almac Group, SyncoZymes, Tianjin Bio-Pharmacn 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 Amine Dehydrogenase 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 Amine Dehydrogenase Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Amine Dehydrogenase Market, Segmentation by Type:

Aliphatic Ketone Type

Aromatic Ketone Type

Heterocyclic Ketone Type

Global Amine Dehydrogenase Market, Segmentation by Catalytic Selectivity:

R-selective Type

S-selective Type

Broad-spectrum Type

Global Amine Dehydrogenase Market, Segmentation by Form:

Free Enzyme Preparation

Immobilized Enzyme Preparation

Whole-cell Catalyst

Global Amine Dehydrogenase Market, Segmentation by Application:

Pharmaceutical Biocatalysis

Agrochemical Intermediate

Specialty Fine Chemical

Other

Companies Profiled:

Johnson Matthey

Almac Group

SyncoZymes

Tianjin Bio-Pharmacn Biotechnology

Key Questions Answered:

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

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