

# Global Amine Dehydrogenase 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 Amine Dehydrogenase market size was valued at US\$ 66.06 million in 2025 and is forecast to a readjusted size of US\$ 115 million by 2032 with a CAGR of 8.2% during review period.

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

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

Global Amine Dehydrogenase 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 Amine Dehydrogenase 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 Amine Dehydrogenase

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 Amine Dehydrogenase 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, Almac Group, SyncoZymes, Tianjin Bio-Pharmaceutical Biotechnology, etc.

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

## Market Segmentation

Amine Dehydrogenase 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

Aliphatic Ketone Type

Aromatic Ketone Type

Heterocyclic Ketone Type

### Market segment by Catalytic Selectivity

R-selective Type

S-selective Type

Broad-spectrum Type

### Market segment by Form

Free Enzyme Preparation

Immobilized Enzyme Preparation

Whole-cell Catalyst

#### Market segment by Application

Pharmaceutical Biocatalysis

Agrochemical Intermediate

Specialty Fine Chemical

Other

#### Major players covered

Johnson Matthey

Almac Group

SyncoZymes

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 Amine Dehydrogenase product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Amine Dehydrogenase 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 Amine Dehydrogenase 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 Amine Dehydrogenase.

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

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