

Global Transaminase In Chiral Catalysis 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 Transaminase In Chiral Catalysis market size was valued at US\$ 180 million in 2025 and is forecast to a readjusted size of US\$ 522 million by 2032 with a CAGR of 15.9% during review period.

Transaminases in chiral catalysis are enzymes used within chiral catalytic systems to convert ketone or aldehyde substrates into chiral amines with high enantioselectivity. They typically rely on the cofactor pyridoxal phosphate (PLP) and operate through an amino transfer mechanism, transferring an amino group from a donor to the substrate to produce chiral amine products. In pharmaceutical, fine chemical, and agrochemical synthesis, transaminases in chiral catalysis serve as key biocatalytic tools, enhancing product stereochemical purity and process sustainability.

Direct enzyme sales account for around 35%, CDMO and process development services approximately 55%, and the remainder represents implicit technology value. Annual reaction throughput is roughly 15 tons (based on high-value chiral pharmaceutical intermediates), with nominal global enzyme-related capacity of about 60 tons (from laboratory to pilot scale). Pricing averages are approximately USD 3,000/kg for free or immobilized enzymes and USD 5,000/kg for engineered transaminases, with a blended gross margin of around 50%. Downstream demand is dominated by pharmaceuticals (>60%), with agrochemicals and fine chemicals as secondary applications. The upstream includes ketone/aldehyde substrates and cofactors, midstream covers enzyme production and process development, and downstream focuses on high-value chiral amine synthesis. The global industry structure combines innovation and scale-up, with methodology and protein engineering led by the US/EU, and process scale-up and CDMO services led by China. The market is in a growth

phase, driven by chiral drug demand and advances in protein engineering, with key uncertainties related to enzyme stability and scale-up challenges.

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

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

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

Global Transaminase In Chiral Catalysis market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 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 Transaminase In Chiral Catalysis

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 Transaminase In Chiral Catalysis 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 Codexis, Evonik, Johnson Matthey, BASF, Novozymes, WuXi AppTec, Asymchem, Lonza, etc.

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

Market Segmentation

Transaminase In Chiral Catalysis 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

Pyridoxal Phosphate Dependent Transaminase

Engineered Transaminase

Biotype Transaminase

Market segment by From

Free Enzyme

Immobilized Enzyme

Whole Cell

Enzyme Cocktails

Market segment by Application

Pharmaceuticals

Agrochemicals

Fine Chemicals

Materials

Others

Major players covered

Codexis

Evonik

Johnson Matthey

BASF

Novozymes

WuXi AppTec

Asymchem

Lonza

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 Transaminase In Chiral Catalysis product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Transaminase In Chiral Catalysis 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 Transaminase In Chiral Catalysis 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 Transaminase In Chiral Catalysis.

Chapter 14 and 15, to describe Transaminase In Chiral Catalysis sales channel, distributors, customers, research findings and conclusion.

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