

# Global Transaminase In Chiral Catalysis Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Transaminase In Chiral Catalysis market size is expected to reach \$ 522 million by 2032, rising at a market growth of 15.9% CAGR during the forecast period (2026-2032).

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 studies the global Transaminase In Chiral Catalysis production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Transaminase In Chiral Catalysis total production and demand, 2021-2032, (Tons)

Global Transaminase In Chiral Catalysis total production value, 2021-2032, (USD Million)

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

Global Transaminase In Chiral Catalysis consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Transaminase In Chiral Catalysis domestic production, consumption, key domestic manufacturers and share

Global Transaminase In Chiral Catalysis production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Transaminase In Chiral Catalysis production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Transaminase In Chiral Catalysis production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Transaminase In Chiral Catalysis 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, 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.

Stakeholders would have ease in decision-making through various strategy matrices

used in analyzing the World Transaminase In Chiral Catalysis market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) 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 Transaminase In Chiral Catalysis Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Transaminase In Chiral Catalysis Market, Segmentation by Type:

Pyridoxal Phosphate Dependent Transaminase

Engineered Transaminase

Biotype Transaminase

Global Transaminase In Chiral Catalysis Market, Segmentation by From:

Free Enzyme

Immobilized Enzyme

Whole Cell

Enzyme Cocktails

Global Transaminase In Chiral Catalysis Market, Segmentation by Application:

Pharmaceuticals

Agrochemicals

Fine Chemicals

Materials

Others

Companies Profiled:

Codexis

Evonik

Johnson Matthey

BASF

Novozymes

WuXi AppTec

Asymchem

Lonza

Key Questions Answered:

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

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