

Global Hydrogenation Catalyst 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 Hydrogenation Catalyst market size was valued at US\$ 4223 million in 2025 and is forecast to a readjusted size of US\$ 5589 million by 2032 with a CAGR of 4.1% during review period.

Hydrogenation catalysts are specialized chemical substances that accelerate the hydrogenation process, a reaction in which hydrogen is added to unsaturated organic compounds, typically in the presence of heat and pressure. These catalysts are critical in refining, petrochemical production, and food processing industries. Depending on their composition, hydrogenation catalysts are broadly classified into base metal catalysts—comprising nickel, cobalt, and molybdenum—and noble metal catalysts, which include platinum and palladium. Base metal catalysts are more widely used due to their cost efficiency and high effectiveness in large-scale hydroprocessing operations such as desulfurization, denitrogenation, and hydrocracking.

Market Landscape and Competitive Dynamics

The hydrogenation catalyst market is defined by high technical barriers and a concentrated competitive environment. The top three global suppliers—Clariant, Shell Catalysts & Technologies, and Advanced Refining Technologies (ART)—collectively command 35.01% of the market. These companies maintain strong footholds across both the refining and petrochemical sectors, supported by long-standing client relationships and proprietary technologies. Other notable participants include Ketjen, Johnson Matthey, Haldor Topsoe, UOP (Honeywell), and Sinopec, which also contribute to the market with diverse product portfolios and regional strengths. Production is primarily centered in industrialized regions such as the United States,

Europe, China, and Japan, reflecting the technological complexity and capital intensity required for manufacturing hydrogenation catalysts.

Market Trends and Future Outlook

Looking ahead, the global hydrogenation catalyst market is poised for growth, particularly in emerging regions such as China, Southeast Asia, and the Middle East. These markets are expanding their refining capacity and petrochemical output, fueled by increasing energy demand and industrial development. Additionally, the global shift toward cleaner energy sources and sustainable fuels is boosting demand for hydrogenation catalysts in applications such as Hydrotreated Vegetable Oil (HVO) and Sustainable Aviation Fuel (SAF). In contrast, Europe's market remains relatively stable, shaped by stricter environmental policies and moderate fuel demand. By application, the refining sector leads consumption, accounting for 49.72% of revenue, followed by petrochemical production at 23.97%, and oil & fat hydrogenation at 14.39%. These trends underscore the essential role of hydrogenation catalysts in both traditional and renewable energy markets.

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

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

Global Hydrogenation Catalyst 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 Hydrogenation Catalyst 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 Hydrogenation Catalyst

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 Hydrogenation Catalyst 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 BASF, Clariant, Evonik, Advanced Refining Technologies (ART), Shell Catalysts & Technologies, Johnson Matthey, Axens, UOP, Haldor Topsoe, Ketjen, etc.

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

Market Segmentation

Hydrogenation Catalyst 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

Base Metal Catalysts

Noble Metal Catalysts

Other

Market segment by Application

Refining

Petrochemicals

Oil & Fat Hydrogenation

Other

Major players covered

BASF

Clariant

Evonik

Advanced Refining Technologies (ART)

Shell Catalysts & Technologies

Johnson Matthey

Axens

UOP

Haldor Topsoe

Ketjen

Sinopec

CNPC

Beijing Haixin Energy Technology

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 Hydrogenation Catalyst product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Hydrogenation Catalyst 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 Hydrogenation Catalyst 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 Hydrogenation Catalyst.

Chapter 14 and 15, to describe Hydrogenation Catalyst sales channel, distributors, customers, research findings and conclusion.

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