

# Hydrogenation Catalyst Market Growth Driven by Clean Tech Innovations and Industrial Demand | DataM Intelligence

*Hydrogenation catalyst market is growing steadily, fueled by sustainability, process efficiency, and demand in refining, chemicals, and pharmaceuticals.*

NEW YORK, NY, UNITED STATES, July 10, 2025 /EINPresswire.com/ -- Market Overview :-

The [Hydrogenation Catalyst Market](#), Valued at US\$ 3.7 billion in 2023, is anticipated to expand consistently and reach US\$ 5.2 billion by 2031, registering a CAGR of 4.2% during the 2024 - 2031 forecast period.

Hydrogenation catalysts are crucial in industries like petrochemicals, food processing, pharmaceuticals, and fine chemicals, enabling key reactions under milder conditions and enhancing process efficiency. As industries globally aim to reduce emissions and energy consumption, hydrogenation catalysts are gaining traction as essential tools in green chemistry.



Hydrogenation catalysts are driving the next wave of clean industrial transformation enhancing efficiency, reducing emissions, and supporting green chemistry worldwide.”  
*DataM Intelligence*

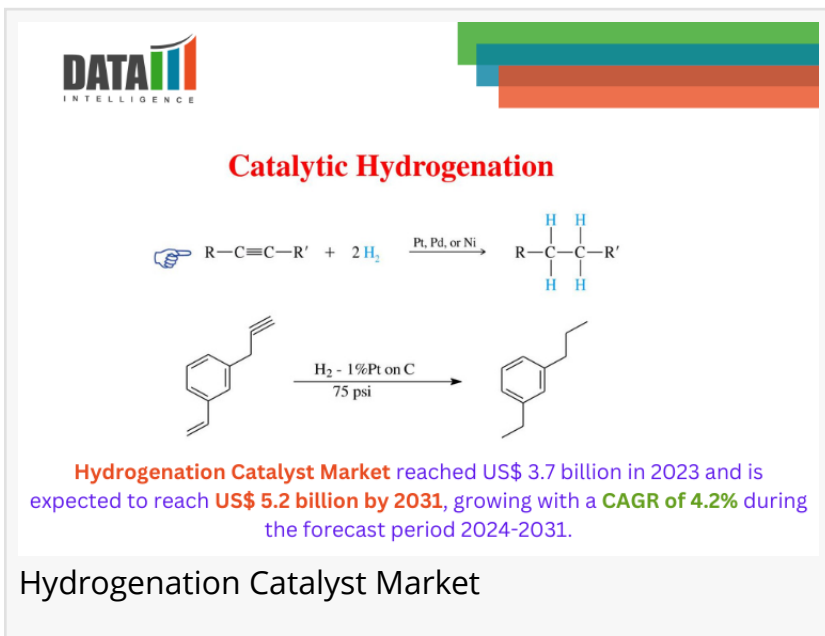
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Market Drivers are :

Growth in petrochemical and refining sectors: Increased demand for clean fuels and oleochemicals is expanding catalyst applications.

Rise in food processing demand: Hydrogenation of oils and fats in edible products supports catalyst consumption.



Technological innovations: Advancements in catalyst design for selectivity and activity are boosting adoption.

Sustainability trends: Pressure to reduce carbon footprints is promoting hydrogenation over traditional chemical methods.

Pharmaceutical applications: Expanding drug synthesis needs are driving demand for high-purity hydrogenation processes.

Market Key Players are :-

Key industry players include:

BASF

Evonik Industries

Sinopec

CNPC (China National Petroleum Corporation)

Johnson Matthey

Royal Dutch Shell

Clariant

Albemarle Corporation

LyondellBasell Industries Holdings B.V.

Advanced Refining Technologies (ART)

These companies are involved in catalyst manufacturing, innovation, and global supply, playing pivotal roles in serving refinery, polymer, chemical, and specialty sectors.

Market Segmentation :-

The Hydrogenation Catalyst Market is segmented based on:

Type: Precious metal-based catalysts (Platinum, Palladium, Rhodium) and base metal catalysts (Nickel, Copper, Cobalt).

Application: Oil & gas refining, food processing, chemical synthesis, pharmaceuticals, and polymer manufacturing.

End-user Industry: Petrochemical, food & beverage, pharmaceutical, automotive, and specialty chemicals.

Region: Europe, Asia-Pacific, Latin America, North America and Middle East & Africa.

Asia-Pacific holds the largest market share, driven by extensive petrochemical activities and rising industrial investments, especially in China and India.

#### Latest News

##### USA: Boost in Renewable Hydrogenation Initiatives

In 2024, U.S.-based chemical companies ramped up their focus on sustainable hydrogenation processes. Clariant and Johnson Matthey announced joint development agreements with American refiners to test advanced hydrogenation catalysts for renewable diesel production. This shift aligns with the U.S. Department of Energy's decarbonization roadmap, which encourages refinery modernization using efficient catalysis.

##### Japan: Focus on Precision Catalysis for Pharmaceuticals

In Japan, major chemical companies like Mitsubishi Chemical Holdings and regional subsidiaries of BASF and Evonik have initiated R&D into precision hydrogenation catalysts tailored for API (Active Pharmaceutical Ingredient) manufacturing. These initiatives aim to improve selectivity and minimize by-products in fine chemical synthesis, supporting Japan's pharmaceutical innovation.

#### Major Developments are :

BASF launched a next-generation nickel-based hydrogenation catalyst line with improved surface area and lower contamination risk, targeting oleochemical refining.

Johnson Matthey expanded its U.S. catalyst production capacity by 15%, aimed at supporting the domestic clean fuel transformation.

Clariant developed a new hybrid catalyst suitable for both batch and continuous hydrogenation processes, appealing to small and large-scale chemical manufacturers.

Evonik Industries introduced bio-based hydrogenation catalysts made from sustainable raw materials, promoting circular economy goals in the catalyst space.

Advanced Refining Technologies (ART) announced strategic collaborations with Gulf-based refiners to deploy customized hydrogenation catalysts that optimize middle distillate yield.

Concluding Paragraph :-

The Hydrogenation Catalyst market is steadily evolving, driven by industrial sustainability goals, rising consumer demand for cleaner products, and technological innovation. With strong backing from global players and ongoing research into advanced formulations, the market is poised to offer efficient, cleaner alternatives across refining, chemical, food, and pharmaceutical sectors. As hydrogenation processes become integral to reducing industrial carbon footprints, catalysts will remain the heart of this transformation.

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