

Global C4 Fraction Selective Hydrogenation Catalyst Market Growth 2026-2032

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Abstracts

The global C4 Fraction Selective Hydrogenation Catalyst market size is predicted to grow from US\$ 174 million in 2025 to US\$ 257 million in 2032; it is expected to grow at a CAGR of 5.7% from 2026 to 2032.

In 2025, global sales volume of C4 Fraction Selective Hydrogenation Catalyst is estimated at approximately 1,150 tons, with an average global market price of about USD 155/kg. The gross margin of major producers is generally in the range of 35%-50%.

C4 Fraction Selective Hydrogenation Catalyst is a petrochemical catalyst used for the refining of mixed C4 fractions. It mainly uses palladium-based precious metals or nickel-based non-precious metals as active components, supported on alumina and other carriers. Its function is to selectively remove highly active unsaturated impurities such as vinyl acetylene, ethyl acetylene and butadiene from C4 streams, while retaining valuable components such as butene and isobutene as much as possible, thereby reducing side reactions, coking and catalyst deactivation in downstream units.

The upstream of C4 Fraction Selective Hydrogenation Catalyst mainly includes palladium, nickel salts, alumina carriers, promoters and forming materials. The midstream involves catalyst formulation design, loading modification, forming, calcination and performance evaluation. The downstream applications mainly include butadiene extraction, etherification, alkylation, butene separation and other C4 deep-processing processes. The product value is mainly reflected in hydrogenation selectivity, impurity conversion rate, butene loss control and long-cycle operation capability.

United States market for C4 Fraction Selective Hydrogenation Catalyst is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for C4 Fraction Selective Hydrogenation Catalyst is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for C4 Fraction Selective Hydrogenation Catalyst is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key C4 Fraction Selective Hydrogenation Catalyst players cover BASF, Axens, Johnson Matthey, Clariant, Shell Catalysts, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "C4 Fraction Selective Hydrogenation Catalyst Industry Forecast" looks at past sales and reviews total world C4 Fraction Selective Hydrogenation Catalyst sales in 2025, providing a comprehensive analysis by region and market sector of projected C4 Fraction Selective Hydrogenation Catalyst sales for 2026 through 2032. With C4 Fraction Selective Hydrogenation Catalyst sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world C4 Fraction Selective Hydrogenation Catalyst industry.

This Insight Report provides a comprehensive analysis of the global C4 Fraction Selective Hydrogenation Catalyst landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on C4 Fraction Selective Hydrogenation Catalyst portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global C4 Fraction Selective Hydrogenation Catalyst market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for C4 Fraction Selective Hydrogenation Catalyst and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly

nuanced view of the current state and future trajectory in the global C4 Fraction Selective Hydrogenation Catalyst.

This report presents a comprehensive overview, market shares, and growth opportunities of C4 Fraction Selective Hydrogenation Catalyst market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Palladium-Based Precious Metal Type

Nickel-Based Non-Precious Metal Type

Segmentation by Processing Object:

Alkyne Removal Type

Diene Removal Type

Combined Alkyne/Diene Removal Type

Segmentation by Application:

Butadiene Extraction

Etherification

Alkylation

Butene Separation

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

BASF

Axens

Johnson Matthey

Clariant

Shell Catalysts

Evonik

Sinopec

Jiangxi 863 Industrial

Dalian Huabang Chemical

Key Questions Addressed in this Report

What is the 10-year outlook for the global C4 Fraction Selective Hydrogenation Catalyst market?

What factors are driving C4 Fraction Selective Hydrogenation Catalyst market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do C4 Fraction Selective Hydrogenation Catalyst market opportunities vary by end

market size?

How does C4 Fraction Selective Hydrogenation Catalyst break out by Type, by Application?

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