

Global Liquid Organic Hydrogen Carriers Technology (LOHC) Market Growth (Status and Outlook) 2026-2032

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Abstracts

The global Liquid Organic Hydrogen Carriers Technology (LOHC) market size is predicted to grow from US\$ 715 million in 2025 to US\$ 1286 million in 2032; it is expected to grow at a CAGR of 8.9% from 2026 to 2032.

Liquid Organic Hydrogen Carriers (LOHC) technology stores hydrogen by hydrogenating organic liquid compounds and releases hydrogen on demand through dehydrogenation reactions. LOHC materials are liquids under ambient conditions, offering high safety, ease of storage and transport, and compatibility with existing liquid fuel infrastructure, enabling long-term hydrogen storage and large-scale transportation.

Liquid Organic Hydrogen Carriers (LOHC) technology is a hydrogen storage method that uses liquid organic compounds to absorb and release hydrogen under catalytic action, enabling safe and high-density hydrogen storage and transport at ambient temperature and pressure. The upstream mainly includes hydrogen production and purification equipment, suppliers of liquid organic hydrogen carrier compounds, and catalyst manufacturers, with key materials typically aromatic or cycloalkane compounds and high-activity catalysts. The downstream applications focus on transportation, especially long-distance vehicles, drones, and ships, as well as distributed energy storage and industrial hydrogen transport, where requirements for storage safety, carrier stability, and hydrogenation/dehydrogenation efficiency are high.

The development trend of LOHC technology focuses on increasing hydrogen carrying capacity, reducing dehydrogenation temperature and energy consumption, improving catalyst efficiency, and achieving system modularity and large-scale transport. Driving factors include global hydrogen development strategies, policy support for green and low-carbon energy, the convenience of liquid transport, and compatibility with existing

fuel infrastructure. Challenges include high carrier costs, complex heat management for dehydrogenation, limited catalyst lifespan, and relatively low system energy efficiency. Gross margins, driven by high-end industrial and long-distance transport applications, can range from 25% to 40%, and are expected to gradually stabilize or slightly decrease as processes are optimized and large-scale deployment occurs.

LPI (LP Information)' newest research report, the “Liquid Organic Hydrogen Carriers Technology (LOHC) Industry Forecast” looks at past sales and reviews total world Liquid Organic Hydrogen Carriers Technology (LOHC) sales in 2025, providing a comprehensive analysis by region and market sector of projected Liquid Organic Hydrogen Carriers Technology (LOHC) sales for 2026 through 2032. With Liquid Organic Hydrogen Carriers Technology (LOHC) sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Liquid Organic Hydrogen Carriers Technology (LOHC) industry.

This Insight Report provides a comprehensive analysis of the global Liquid Organic Hydrogen Carriers Technology (LOHC) landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on Liquid Organic Hydrogen Carriers Technology (LOHC) portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Liquid Organic Hydrogen Carriers Technology (LOHC) market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Liquid Organic Hydrogen Carriers Technology (LOHC) 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 Liquid Organic Hydrogen Carriers Technology (LOHC).

This report presents a comprehensive overview, market shares, and growth opportunities of Liquid Organic Hydrogen Carriers Technology (LOHC) market by product type, application, key players and key regions and countries.

Segmentation by Type:

Aromatic Hydrocarbons

Heterocyclic Hydrocarbons

Alcohols

Other Organic Liquids

Segmentation by Hydrogen Storage Mass Fraction:

Less than 5.0 wt%

5.0-7.0 wt%

More than 7.0 wt%

Segmentation by Technology Application Forms:

Liquid Storage and Transportation Type LOHC

Fixed Bed Reaction Type LOHC

Mobile Vehicle-Mounted Type LOHC

Portable Type LOHC

Segmentation by Application:

Hydrogen Storage And Transportation

Transportation And Mobile Energy

Stationary Energy Systems

Industrial and Research

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 analyzing the company's coverage, product portfolio, its market penetration.

Honeywell

Axens

Chiyoda

Evonik

Hydrogenious LOHC Technologies

HydroTransformer

Beijing Hywin Hydrogen Technology

Hynertech

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