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Global Liquid Organic Hydrogen Carriers Technology (LOHC) Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Liquid Organic Hydrogen Carriers Technology (LOHC) market size is expected to reach $ 1314 million by 2032, rising at a market growth of 8.4% CAGR during the forecast period (2026-2032).

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

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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.

This report studies the global Liquid Organic Hydrogen Carriers Technology (LOHC) demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Liquid Organic Hydrogen Carriers Technology (LOHC), 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 Liquid Organic Hydrogen Carriers Technology (LOHC) that contribute to its increasing demand across many markets.

Highlights and key features of the study
Global Liquid Organic Hydrogen Carriers Technology (LOHC) total market, 2021-2032, (USD Million)
Global Liquid Organic Hydrogen Carriers Technology (LOHC) total market by region & country, CAGR, 2021-2032, (USD Million)
U.S. VS China: Liquid Organic Hydrogen Carriers Technology (LOHC) total market, key domestic companies, and share, (USD Million)
Global Liquid Organic Hydrogen Carriers Technology (LOHC) revenue by player, revenue and market share 2021-2026, (USD Million)
Global Liquid Organic Hydrogen Carriers Technology (LOHC) total market by Type, CAGR, 2021-2032, (USD Million)
Global Liquid Organic Hydrogen Carriers Technology (LOHC) total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Liquid Organic Hydrogen Carriers Technology (LOHC) market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Honeywell, Axens, Chiyoda, Evonik, Hydrogenious LOHC Technologies, HydroTransformer, Beijing Hywin Hydrogen Technology, Hynertech, etc.

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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 Liquid Organic Hydrogen Carriers Technology (LOHC) market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), by player, by regions, 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 Liquid Organic Hydrogen Carriers Technology (LOHC) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Liquid Organic Hydrogen Carriers Technology (LOHC) Market, Segmentation by Type:

Aromatic Hydrocarbons

Heterocyclic Hydrocarbons

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Alcohols

Other Organic Liquids

Global Liquid Organic Hydrogen Carriers Technology (LOHC) Market, Segmentation by Hydrogen Storage Mass Fraction:

Less than 5.0 wt%

5.0-7.0 wt%

More than 7.0 wt%

Global Liquid Organic Hydrogen Carriers Technology (LOHC) Market, Segmentation by Technology Application Forms:

Liquid Storage and Transportation Type LOHC

Fixed Bed Reaction Type LOHC

Mobile Vehicle-Mounted Type LOHC

Portable Type LOHC

Global Liquid Organic Hydrogen Carriers Technology (LOHC) Market, Segmentation by Application:

Hydrogen Storage And Transportation

Transportation And Mobile Energy

Stationary Energy Systems

Industrial and Research

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Companies Profiled:

Honeywell

Axens

Chiyoda

Evonik

Hydrogenious LOHC Technologies

HydroTransformer

Beijing Hywin Hydrogen Technology

Hynertech

Key Questions Answered
1. How big is the global Liquid Organic Hydrogen Carriers Technology (LOHC) market?
2. What is the demand of the global Liquid Organic Hydrogen Carriers Technology (LOHC) market?
3. What is the year over year growth of the global Liquid Organic Hydrogen Carriers Technology (LOHC) market?
4. What is the total value of the global Liquid Organic Hydrogen Carriers Technology (LOHC) market?
5. Who are the Major Players in the global Liquid Organic Hydrogen Carriers Technology (LOHC) market?
6. What are the growth factors driving the market demand?

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