

# Global Liquid Organic Hydrogen Carriers Technology (LOHC) Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Liquid Organic Hydrogen Carriers Technology (LOHC) market size was valued at US\$ 752 million in 2025 and is forecast to a readjusted size of US\$ 1314 million by 2032 with a CAGR of 8.4% during review period.

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.

This report is a detailed and comprehensive analysis for global Liquid Organic Hydrogen Carriers Technology (LOHC) market. Both quantitative and qualitative analyses are presented by company, 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 Liquid Organic Hydrogen Carriers Technology (LOHC) market size and forecasts, in consumption value (\$ Million), 2021-2032

Global Liquid Organic Hydrogen Carriers Technology (LOHC) market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global Liquid Organic Hydrogen Carriers Technology (LOHC) market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global Liquid Organic Hydrogen Carriers Technology (LOHC) market shares of main players, in revenue (\$ Million), 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 Liquid Organic Hydrogen Carriers Technology (LOHC)

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 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.

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

### Market segmentation

Liquid Organic Hydrogen Carriers Technology (LOHC) 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. This analysis can help you expand your business by targeting qualified niche markets.

### Market segment by Type

Aromatic Hydrocarbons

Heterocyclic Hydrocarbons

Alcohols

Other Organic Liquids

### Market segment by Hydrogen Storage Mass Fraction

Less than 5.0 wt%

5.0-7.0 wt%

More than 7.0 wt%

#### Market segment by Technology Application Forms

Liquid Storage and Transportation Type LOHC

Fixed Bed Reaction Type LOHC

Mobile Vehicle-Mounted Type LOHC

Portable Type LOHC

#### Market segment by Application

Hydrogen Storage And Transportation

Transportation And Mobile Energy

Stationary Energy Systems

Industrial and Research

#### Market segment by players, this report covers

Honeywell

Axens

Chiyoda

Evonik

Hydrogenious LOHC Technologies

HydroTransformer

Beijing Hywin Hydrogen Technology

Hynertech

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

**The content of the study subjects, includes a total of 13 chapters:**

Chapter 1, to describe Liquid Organic Hydrogen Carriers Technology (LOHC) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Liquid Organic Hydrogen Carriers Technology (LOHC), with revenue, gross margin, and global market share of Liquid Organic Hydrogen Carriers Technology (LOHC) from 2021 to 2026.

Chapter 3, the Liquid Organic Hydrogen Carriers Technology (LOHC) competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026. and Liquid Organic Hydrogen Carriers Technology (LOHC) market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Liquid Organic Hydrogen Carriers Technology (LOHC).

Chapter 13, to describe Liquid Organic Hydrogen Carriers Technology (LOHC) research findings and conclusion.

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