

Global Liquid-Organic Hydrogen Carrier (LOHC) Materials Market Growth 2026-2032

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Abstracts

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

Liquid organic hydrogen carriers (LOHC) are organic compounds that can absorb and release hydrogen through chemical reactions. LOHCs can therefore be used as storage media for hydrogen. In principle, every unsaturated compound (organic molecules with C-C double or triple bonds) can take up hydrogen during hydrogenation. The sequence of endothermal dehydrogenation followed by hydrogen purification is considered as the main drawback which limits the overall efficiency of the storage cycle. LOHC shipping without heat recycling has an energy efficiency of 60-70%, depending on the dehydrogenation rate, which is equivalent to liquid hydrogen shipping. With heat recycling, the energy efficiency increase to 80-90%

United States market for Liquid-Organic Hydrogen Carrier (LOHC) Materials 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 Liquid-Organic Hydrogen Carrier (LOHC) Materials 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 Liquid-Organic Hydrogen Carrier (LOHC) Materials is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Liquid-Organic Hydrogen Carrier (LOHC) Materials players cover Hynertech, Chiyoda Corporation, Hydrogenious Technologies, Covalion, Areva, 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 “Liquid-Organic Hydrogen Carrier (LOHC) Materials Industry Forecast” looks at past sales and reviews total world Liquid-Organic Hydrogen Carrier (LOHC) Materials sales in 2025, providing a comprehensive analysis by region and market sector of projected Liquid-Organic Hydrogen Carrier (LOHC) Materials sales for 2026 through 2032. With Liquid-Organic Hydrogen Carrier (LOHC) Materials 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 Carrier (LOHC) Materials industry.

This Insight Report provides a comprehensive analysis of the global Liquid-Organic Hydrogen Carrier (LOHC) Materials 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 Liquid-Organic Hydrogen Carrier (LOHC) Materials 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 Carrier (LOHC) Materials market.

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

This report presents a comprehensive overview, market shares, and growth opportunities of Liquid-Organic Hydrogen Carrier (LOHC) Materials market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Cyclohexane

Methylcyclohexane

N-ethyl carbazole

Dibenzyltoluene

Segmentation by Application:

Hydrogen Transportation

Hydrogen Station

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.

Hynertech

Chiyoda Corporation

Hydrogenious Technologies

Covalion

Areva

Key Questions Addressed in this Report

What is the 10-year outlook for the global Liquid-Organic Hydrogen Carrier (LOHC) Materials market?

What factors are driving Liquid-Organic Hydrogen Carrier (LOHC) Materials market growth, globally and by region?

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

How do Liquid-Organic Hydrogen Carrier (LOHC) Materials market opportunities vary by end market size?

How does Liquid-Organic Hydrogen Carrier (LOHC) Materials break out by Type, by Application?

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