

Global Liquid-Organic Hydrogen Carrier (LOHC) Materials Supply, Demand and Key Producers, 2024-2030

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Abstracts

The global Liquid-Organic Hydrogen Carrier (LOHC) Materials market size is expected to reach \$ million by 2030, rising at a market growth of % CAGR during the forecast period (2024-2030).

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%

This report studies the global Liquid-Organic Hydrogen Carrier (LOHC) Materials production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Liquid-Organic Hydrogen Carrier (LOHC) Materials, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2023 as the base year. This report explores demand trends and competition, as well as details the characteristics of Liquid-Organic Hydrogen Carrier (LOHC) Materials that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Liquid-Organic Hydrogen Carrier (LOHC) Materials total production and demand, 2019-2030, (Tons)

Global Liquid-Organic Hydrogen Carrier (LOHC) Materials total production value, 2019-2030, (USD Million)

Global Liquid-Organic Hydrogen Carrier (LOHC) Materials production by region & country, production, value, CAGR, 2019-2030, (USD Million) & (Tons)

Global Liquid-Organic Hydrogen Carrier (LOHC) Materials consumption by region & country, CAGR, 2019-2030 & (Tons)

U.S. VS China: Liquid-Organic Hydrogen Carrier (LOHC) Materials domestic production, consumption, key domestic manufacturers and share

Global Liquid-Organic Hydrogen Carrier (LOHC) Materials production by manufacturer, production, price, value and market share 2019-2024, (USD Million) & (Tons)

Global Liquid-Organic Hydrogen Carrier (LOHC) Materials production by Type, production, value, CAGR, 2019-2030, (USD Million) & (Tons)

Global Liquid-Organic Hydrogen Carrier (LOHC) Materials production by Application production, value, CAGR, 2019-2030, (USD Million) & (Tons).

This reports profiles key players in the global Liquid-Organic Hydrogen Carrier (LOHC) Materials market based on the following parameters – company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Hynertech, Chiyoda Corporation, Hydrogenious Technologies, Covalion and Areva, etc.

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 Carrier (LOHC) Materials market.

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2019-2030 by year with 2023 as the base year, 2024 as the estimate year, and 2025-2030 as the forecast year.

Global Liquid-Organic Hydrogen Carrier (LOHC) Materials Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Liquid-Organic Hydrogen Carrier (LOHC) Materials Market, Segmentation by Type

Cyclohexane

Methylcyclohexane

N-ethyl carbazole

Dibenzyltoluene

Global Liquid-Organic Hydrogen Carrier (LOHC) Materials Market, Segmentation by Application

Hydrogen Transportation

Hydrogen Station

Companies Profiled:

Hynertech

Chiyoda Corporation

Hydrogenious Technologies

Covalion

Areva

Key Questions Answered

1. How big is the global Liquid-Organic Hydrogen Carrier (LOHC) Materials market?
2. What is the demand of the global Liquid-Organic Hydrogen Carrier (LOHC) Materials market?
3. What is the year over year growth of the global Liquid-Organic Hydrogen Carrier (LOHC) Materials market?
4. What is the production and production value of the global Liquid-Organic Hydrogen Carrier (LOHC) Materials market?
5. Who are the key producers in the global Liquid-Organic Hydrogen Carrier (LOHC) Materials market?

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