

Global Diaryl Alkane Heat Transfer Oil Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Diaryl Alkane Heat Transfer Oil market size is expected to reach \$ 112 million by 2032, rising at a market growth of 4.6% CAGR during the forecast period (2026-2032).

In 2025, global sales volume of diaryl alkane heat transfer oil reached 19,000 metric tons, with an average price of \$4,215 per metric ton.

Diaryl alkane heat transfer oil, with its unique diaryl alkane structure, exhibits a series of excellent physical and chemical properties. This heat transfer oil usually has a high boiling point, low vapor pressure, and good thermal and chemical stability. These characteristics enable diaryl alkane heat transfer oil to maintain stable performance at high temperatures, and is not prone to oxidation and decomposition, thereby extending its service life.

The raw material system for diaryl alkane heat transfer oil comprises four main categories: aromatic feedstocks, alkylating agents, catalysts and auxiliaries, and solvents/utilities. Regarding aromatic feedstocks, toluene and benzene are central; toluene is the primary raw material for producing dibenzyltoluene (via the condensation of toluene and benzyl chloride), while benzene is used to produce benzyl chloride (benzene + chloromethane → toluene → side-chain chlorination → benzyl chloride). As bulk petrochemical products, price fluctuations in toluene and benzene directly impact costs (toluene: approx. \$700-\$1,200/ton; benzene: approx. \$600-\$1,200/ton). Regarding alkylating agents, benzyl chloride is used to synthesize dibenzyltoluene, introducing the benzyl group onto the toluene ring via Friedel-Crafts alkylation or condensation reactions; benzyl chloride is produced through the side-chain chlorination of toluene—a mature process that nonetheless requires strict control over the depth of

chlorination. Regarding catalysts, traditional processes employ Lewis acid catalysts such as AlCl_3 (aluminum chloride) but generate significant acidic wastewater; modern processes have shifted toward solid acid catalysts or catalyst-free high-temperature condensation to reduce environmental compliance costs. Regarding solvents and utilities, the reaction requires inert solvents, fractional distillation necessitates substantial steam and electricity, and product purification involves multi-stage distillation columns.

In terms of cost structure, the production cost of diaryl alkane heat transfer oil is primarily composed of raw materials, energy and utilities, and manufacturing overheads. Raw material costs account for 55–70% of the total cost; within this category, toluene/benzene represents approximately 50–60%, benzyl chloride (or chloromethane) accounts for about 20–30%, and catalysts and additives make up roughly 5–10%. Price fluctuations in toluene and benzene—driven by crude oil prices and petrochemical industry cycles—are the primary factors influencing costs. Energy and utility costs account for approximately 15–25%, covering requirements such as reaction heat for toluene side-chain chlorination, thermal energy for condensation reactions, and steam consumption for fractional distillation; due to their high molecular weight and boiling points, diarylalkanes require significantly higher distillation energy compared to low-molecular-weight heat transfer fluids. Manufacturing overheads (equipment depreciation, labor, maintenance, and environmental treatment) account for about 10–20%; environmental treatment costs are relatively high due to the need to process chlorine-containing wastewater (associated with the traditional benzyl chloride route), though the adoption of cleaner production processes—such as solid acid catalysis and solvent recycling—can reduce these expenses. Packaging, storage, and transportation costs account for approximately 5–10%.

This report studies the global Diaryl Alkane Heat Transfer Oil production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Diaryl Alkane Heat Transfer Oil 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 Diaryl Alkane Heat Transfer Oil that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Diaryl Alkane Heat Transfer Oil total production and demand, 2021-2032, (Tons)
Global Diaryl Alkane Heat Transfer Oil total production value, 2021-2032, (USD Million)

Global Diaryl Alkane Heat Transfer Oil production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Diaryl Alkane Heat Transfer Oil consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Diaryl Alkane Heat Transfer Oil domestic production, consumption, key domestic manufacturers and share

Global Diaryl Alkane Heat Transfer Oil production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Diaryl Alkane Heat Transfer Oil production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Diaryl Alkane Heat Transfer Oil production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Diaryl Alkane Heat Transfer Oil 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 Eastman (US), Dow (US), Global Heat Transfer (US), Jiangsu Zhongneng (CN), Hebei Jindong Technology Group Co., Ltd. (CN), 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 Diaryl Alkane Heat Transfer Oil 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 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Diaryl Alkane Heat Transfer Oil Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Diaryl Alkane Heat Transfer Oil Market, Segmentation by Type:

Gas Phase

Liquid Phase

Global Diaryl Alkane Heat Transfer Oil Market, Segmentation by Operating Temperature:

280-320°

320-350°

350-400°

Global Diaryl Alkane Heat Transfer Oil Market, Segmentation by Synthesis Routes:

Toluene Condensation Method

Alkylation Method

Petroleum Fraction Method

Coal Tar Method

Global Diaryl Alkane Heat Transfer Oil Market, Segmentation by Application:

Oil and Gas

Chemical Industry

Pharmaceutical Industry

Food and Beverage Processing

Plastic and Rubber Manufacturing

Other

Companies Profiled:

Eastman (US)

Dow (US)

Global Heat Transfer (US)

Jiangsu Zhongneng (CN)

Hebei Jindong Technology Group Co., Ltd. (CN)

Key Questions Answered:

1. How big is the global Diaryl Alkane Heat Transfer Oil market?
2. What is the demand of the global Diaryl Alkane Heat Transfer Oil market?
3. What is the year over year growth of the global Diaryl Alkane Heat Transfer Oil market?
4. What is the production and production value of the global Diaryl Alkane Heat Transfer Oil market?
5. Who are the key producers in the global Diaryl Alkane Heat Transfer Oil market?

6. What are the growth factors driving the market demand?

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