

Global Diacrylate Liquid Crystal Monomers Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G6E44F8E3498EN.html>

Date: August 2026

Pages: 109

Price: US\$ 4,480.00 (Single User License)

ID: G6E44F8E3498EN

Abstracts

The global Diacrylate Liquid Crystal Monomers market size is expected to reach \$ 173 million by 2032, rising at a market growth of 8.2% CAGR during the forecast period (2026-2032).

Diacrylate liquid crystal monomers are bifunctional reactive mesogens that contain two acrylate polymerizable end groups and a mesogenic liquid-crystalline core. They can be aligned in a liquid-crystalline phase and then crosslinked by UV or thermal free-radical polymerization to form anisotropic polymer networks. These materials are mainly used in optical compensation films, retardation films, OLED circular polarizer structures, polymer-stabilized liquid crystals, liquid crystal elastomers, holographic materials, polarization gratings, smart optical films and 3D/4D printed liquid-crystal networks.

According to our research, diacrylate liquid crystal monomers should be treated as one of the most important crosslinkable reactive mesogen segments, not as a general liquid-crystal monomer market. Their core value comes from the combination of a liquid-crystalline mesogenic core and two acrylate polymerizable end groups. This structure allows the material to align in a liquid-crystal phase and then be fixed by UV or thermal free-radical polymerization, forming stable anisotropic polymer networks.

From an application perspective, the largest demand still comes from display optical films and OLED/LCD optical structures, including retardation films, optical compensation films, circular polarizer structures, anti-reflection-related layers and polymer-stabilized liquid-crystal systems. Compared with azobenzene liquid crystal monomers, diacrylate reactive mesogens are more mature and closer to industrial-scale use, especially in display-related optical film applications.

From the supply side, Merck remains the most important global display-grade reactive mesogen supplier, while Synthron Chemicals has very clear public evidence for RM257-type bifunctional reactive mesogens. Daken Chemical provides China-based product evidence for RM257 and RM82/R6M-type materials, while Jiangsu Hecheng and XAGIC are important China-based polymerizable liquid crystal or RM localization players.

Product differentiation is not only about whether a supplier can synthesize RM257 or RM82. For real optical-film and display applications, customers care about mesophase behavior, birefringence, purity, residual monomer, color, viscosity, solubility, coating-window compatibility, curing shrinkage, alignment stability, film uniformity and batch-to-batch consistency. This is why display-grade RM suppliers with formulation and customer-qualification capability have stronger competitive positions than simple catalog chemical suppliers.

Looking ahead, growth will be supported by OLED optical-film upgrades, thinner display stacks, advanced retardation films, polymer-stabilized liquid crystals, smart optical films, polarization gratings, AR/VR optical elements and liquid crystal elastomer or liquid crystal network applications. However, the market should still be modeled at the monomer/material level: downstream optical films, polarizers, LCE devices and display panels should not be included as full market revenue. The most competitive suppliers will be those combining liquid crystal molecular design, acrylate monomer synthesis, high-purity purification, formulation know-how, coating-process support and long-term customer qualification.

This report studies the global Diacrylate Liquid Crystal Monomers production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Diacrylate Liquid Crystal Monomers 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 Diacrylate Liquid Crystal Monomers that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Diacrylate Liquid Crystal Monomers total production and demand, 2021-2032, (Tons)

Global Diacrylate Liquid Crystal Monomers total production value, 2021-2032, (USD Million)

Global Diacrylate Liquid Crystal Monomers production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Diacrylate Liquid Crystal Monomers consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Diacrylate Liquid Crystal Monomers domestic production, consumption, key domestic manufacturers and share

Global Diacrylate Liquid Crystal Monomers production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Diacrylate Liquid Crystal Monomers production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Diacrylate Liquid Crystal Monomers production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Diacrylate Liquid Crystal Monomers 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 Merck KGaA, Synthon Chemicals GmbH & Co. KG, Daken Chemical, Jiangsu Hecheng Display Technology Co., Ltd., XAGIC Technology Co., Ltd., Tokyo Chemical Industry Co., Ltd., Shijiazhuang Chengzhi Yonghua Display Materials Co., Ltd., 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 Diacrylate Liquid Crystal Monomers 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 Diacrylate Liquid Crystal Monomers Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Diacrylate Liquid Crystal Monomers Market, Segmentation by Type:

RM257-type Diacrylate Mesogens

RM82 / R6M-type Diacrylate Mesogens

Proprietary Display-grade Diacrylate RM

LCE / LCN Diacrylate Crosslinkers

Global Diacrylate Liquid Crystal Monomers Market, Segmentation by Mesogenic Core Chemistry:

Phenyl Benzoate-based Diacrylate RM

Biphenyl / Terphenyl-based Diacrylate RM

Cyclohexyl / Phenylcyclohexyl-based Diacrylate RM

Fluorinated Diacrylate RM

Global Diacrylate Liquid Crystal Monomers Market, Segmentation by Spacer Length:

Short-spacer Diacrylate RM

Medium-spacer Diacrylate RM

Long-spacer Diacrylate RM

Global Diacrylate Liquid Crystal Monomers Market, Segmentation by Application:

Display Optical Compensation Films

OLED Circular Polarizer / Retarder Structures

Polymer-stabilized Liquid Crystals

Liquid Crystal Elastomers / Networks

Holographic / Diffractive Optical Materials

Companies Profiled:

Merck KGaA

Synthon Chemicals GmbH & Co. KG

Daken Chemical

Jiangsu Hecheng Display Technology Co., Ltd.

XAGIC Technology Co., Ltd.

Tokyo Chemical Industry Co., Ltd.

Shijiazhuang Chengzhi Yonghua Display Materials Co., Ltd.

Key Questions Answered:

1. How big is the global Diacrylate Liquid Crystal Monomers market?

2. What is the demand of the global Diacrylate Liquid Crystal Monomers market?
3. What is the year over year growth of the global Diacrylate Liquid Crystal Monomers market?
4. What is the production and production value of the global Diacrylate Liquid Crystal Monomers market?
5. Who are the key producers in the global Diacrylate Liquid Crystal Monomers market?
6. What are the growth factors driving the market demand?

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