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Global Diacrylate Liquid Crystal Monomers Market Growth 2026-2032

https://marketpublishers.com/r/GA6AD4B72E65EN.html
Date: October 2026
Pages: 105
Price: US$ 3,660.00 (Single User License)
ID: GA6AD4B72E65EN

Abstracts

The global Diacrylate Liquid Crystal Monomers market size is predicted to grow from US$ 93.91 million in 2025 to US$ 170 million in 2032; it is expected to grow at a CAGR of 8.7% from 2026 to 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.

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From the supply side, Merck remains the most important global display-grade reactive mesogen supplier, while Synthon 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.

LP Information, Inc. (LPI) ' newest research report, the “Diacrylate Liquid Crystal Monomers Industry Forecast” looks at past sales and reviews total world Diacrylate Liquid Crystal Monomers sales in 2025, providing a comprehensive analysis by region and market sector of projected Diacrylate Liquid Crystal Monomers sales for 2026 through 2032. With Diacrylate Liquid Crystal Monomers sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Diacrylate Liquid Crystal Monomers industry.

This Insight Report provides a comprehensive analysis of the global Diacrylate Liquid Crystal Monomers 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 Diacrylate Liquid Crystal Monomers portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique

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position in an accelerating global Diacrylate Liquid Crystal Monomers market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Diacrylate Liquid Crystal Monomers 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 Diacrylate Liquid Crystal Monomers.

This report presents a comprehensive overview, market shares, and growth opportunities of Diacrylate Liquid Crystal Monomers market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

RM257-type Diacrylate Mesogens

RM82 / R6M-type Diacrylate Mesogens

Proprietary Display-grade Diacrylate RM

LCE / LCN Diacrylate Crosslinkers

Segmentation by Mesogenic Core Chemistry:

Phenyl Benzoate-based Diacrylate RM

Biphenyl / Terphenyl-based Diacrylate RM

Cyclohexyl / Phenylcyclohexyl-based Diacrylate RM

Fluorinated Diacrylate RM

Segmentation by Spacer Length:

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Short-spacer Diacrylate RM

Medium-spacer Diacrylate RM

Long-spacer Diacrylate RM

Segmentation by Application:

Display Optical Compensation Films

OLED Circular Polarizer / Retarder Structures

Polymer-stabilized Liquid Crystals

Liquid Crystal Elastomers / Networks

Holographic / Diffractive Optical Materials

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

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- 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.

- Merck KGaA

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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 Addressed in this Report

What is the 10-year outlook for the global Diacrylate Liquid Crystal Monomers market?

What factors are driving Diacrylate Liquid Crystal Monomers market growth, globally and by region?

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

How do Diacrylate Liquid Crystal Monomers market opportunities vary by end market size?

How does Diacrylate Liquid Crystal Monomers break out by Type, by Application?

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