

Global Fluorinated Liquid Crystal Compounds Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Fluorinated Liquid Crystal Compounds market size was valued at US\$ 673 million in 2025 and is forecast to a readjusted size of US\$ 1077 million by 2032 with a CAGR of 6.9% during review period.

Fluorinated liquid crystal compounds constitute a class of organic liquid crystal materials characterized by the incorporation of fluorine atoms or fluorine-containing substituents into their molecular structures; common fluorine-containing groups include -F , -CF_2 , -OCF_2 , $\text{-OCF}_2\text{H}$, and $\text{-CF}_2\text{O-}$. Owing to the high electronegativity, small atomic radius, and exceptional chemical stability of fluorine atoms, these fluorinated structures enable the precise tuning of key material properties such as dielectric anisotropy, refractive index, viscosity, phase transition temperature, clearing point, response speed, and low-temperature stability. Consequently, these compounds frequently serve as critical monomers or functional components in TFT-LCDs, automotive displays, industrial displays, high-response liquid crystal displays, and mixed liquid crystal formulations, representing an indispensable element within the realm of high-performance liquid crystal display materials.

The upstream segment of the fluorinated liquid crystal compound value chain primarily encompasses fluorinated aromatic intermediates, biphenyl/cyclohexylbenzene-based skeletal intermediates, boronic acids/halogenated compounds, fluorinating reagents, solvents, catalysts, and high-purity refining materials. The midstream segment involves the synthesis of fluorinated liquid crystal monomers including coupling reactions, fluorination substitutions, purification, recrystallization, column chromatography, sublimation purification, and quality control culminating in the production of liquid

crystal compounds exhibiting diverse dielectric anisotropies, viscosities, clearing points, refractive indices, and low-temperature performance characteristics. The downstream segment primarily supplies manufacturers of mixed liquid crystal materials, catering to applications in TFT-LCDs, automotive displays, industrial displays, medical displays, instrumentation displays, and select high-response display devices. The core value of this industry chain resides in molecular design, the synthesis of fluorinated intermediates, rigorous high-purity control, and batch-to-batch stability rather than in generic fluorochemical raw materials; the gross profit margin for fluorinated liquid crystal compounds stands at approximately 35%.

In 2025, the average price of fluorinated liquid crystal compounds is projected to reach \$1,100 per kilogram, with a sales volume of 594.5 tons and a total production capacity of 850 tons.

Fluorinated liquid crystal compounds are classified as high value-added functional monomers within the realm of display liquid crystal materials, distinct from ordinary fluorinated organic intermediates. The presence of fluorine atoms or fluorinated functional groups significantly enhances the dielectric anisotropy, response speed, viscosity, low-temperature stability, and overall reliability of liquid crystal materials; consequently, they play a pivotal role in TFT-LCDs, automotive displays, industrial displays, and high-response display devices. As the LCD panel industry enters a mature phase, price competition for standard liquid crystal mixtures has intensified; however, the increasingly stringent requirements for low-temperature response, longevity, and stability in automotive, industrial control, medical, and high-reliability display applications will continue to underpin the demand for high-performance fluorinated liquid crystal compounds. In the future, industry competition will center on molecular structure design, high-purity purification, control of ionic impurities, batch-to-batch consistency, patent portfolio strategies, and capabilities in customer formula validation. Overall, while the market for these compounds is relatively modest in scale, it is characterized by high technological barriers, high unit prices, and favorable gross margins, representing a critical avenue for liquid crystal material manufacturers to enhance the added value of their product portfolios.

This report is a detailed and comprehensive analysis for global Fluorinated Liquid Crystal Compounds market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market

share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Fluorinated Liquid Crystal Compounds market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Fluorinated Liquid Crystal Compounds market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Fluorinated Liquid Crystal Compounds market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Fluorinated Liquid Crystal Compounds market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries

- To assess the growth potential for Fluorinated Liquid Crystal Compounds

- To forecast future growth in each product and end-use market

- To assess competitive factors affecting the marketplace

This report profiles key players in the global Fluorinated Liquid Crystal Compounds market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Merck KGaA, JNC Corporation, DIC Corporation, PhiChem, Chengzhi Shareholding, Slichem, HCCH, Beijing Bayi Space, Yantai Xianhua Chemical Technology, Yantai Derun LCD Materials, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Fluorinated Liquid Crystal Compounds market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Low Clearing Point (60?80?C)

Medium Clearing Point (80?100?C)

High Clearing Point (>100?C)

Market segment by Liquid Crystal Phase

Fluorinated Nematic LCs

Fluorinated Cholesteric LCs

Fluorinated Smectic LCs

Market segment by Viscosity

Low Viscosity

Medium Viscosity

High Viscosity

Market segment by Application

Display Panel Industry

AR/VR

Automotive Display Field

Special Optoelectronic and Functional Devices

Others

Major players covered

Merck KGaA

JNC Corporation

DIC Corporation

PhiChem

Chengzhi Shareholding

Slichem

HCCH

Beijing Bayi Space

Yantai Xianhua Chemical Technology

Yantai Derun LCD Materials

Shenghua New Materials

Frinton Laboratories

SynQuest Laboratories

Exfluor Research

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Fluorinated Liquid Crystal Compounds product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Fluorinated Liquid Crystal Compounds, with price, sales quantity, revenue, and global market share of Fluorinated Liquid Crystal Compounds from 2021 to 2026.

Chapter 3, the Fluorinated Liquid Crystal Compounds competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Fluorinated Liquid Crystal Compounds breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Fluorinated Liquid Crystal Compounds market

forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Fluorinated Liquid Crystal Compounds.

Chapter 14 and 15, to describe Fluorinated Liquid Crystal Compounds sales channel, distributors, customers, research findings and conclusion.

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