

Global 1,3-Bis(carbazol-9-yl)benzene 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 1,3-Bis(carbazol-9-yl)benzene market size was valued at US\$ 7.00 million in 2025 and is forecast to a readjusted size of US\$ 12.02 million by 2032 with a CAGR of 7.9% during review period.

1,3-Bis(carbazol-9-yl)benzene, commonly known as mCP, is an organic semiconductor molecule with two carbazole units linked through a meta-phenylene core. It is widely used as a host material in OLED research and blue phosphorescent OLED device structures due to its wide bandgap and high triplet energy. Commercially, mCP is supplied as high-purity powder, sublimation-purified OLED-grade material or custom-synthesized organic optoelectronic material. Its key quality attributes include HPLC purity, sublimation grade, thermal stability, batch consistency, trace metal control and compatibility with OLED evaporation and device fabrication processes.

According to our research, 1,3-Bis(carbazol-9-yl)benzene, commonly known as mCP, is a small but strategically important OLED host material rather than a bulk electronic chemical. Its core value lies in its wide bandgap, relatively high triplet energy and suitability as a host material for blue phosphorescent OLED devices and related organic semiconductor research. In market terms, mCP should be treated as a niche high-purity organic optoelectronic material, with demand mainly coming from OLED material R&D, device qualification, pilot-scale validation, academic research and limited commercial formulations. The market size is therefore much smaller than the broader OLED materials market, but the product remains important as a reference host, device benchmarking material and building block for carbazole-based derivatives.

From the supply structure perspective, the global mCP supplier base is fragmented and should be divided carefully by supplier role. Dedicated OLED material companies and high-purity optoelectronic material suppliers are the most relevant core participants, while research chemical catalog companies mainly serve laboratory and small-pack demand. Lumtec, TCI, Sigma-Aldrich, Ossila, Puri Materials, BLD Pharmatech and several China-based OLED material companies form the visible commercial supplier pool, but not all of them should be treated as true bulk manufacturers. Some companies are better classified as research-grade suppliers, distributors, repackagers or custom synthesis providers. For a formal industry report, the core list should prioritize suppliers with official mCP product pages, sublimation-grade offerings, OLED host positioning and evidence of material-grade quality control.

From a product and technology perspective, the market is moving away from simple CAS-based chemical supply toward higher-purity, sublimed, batch-consistent and customer-specific OLED-grade material supply. The key quality indicators are not only HPLC purity, but also sublimation history, thermal stability, trace metal control, residual impurities, batch-to-batch consistency and device performance reproducibility. Research-grade mCP is often sold in gram-level packages, while higher-end customers may require multiple sublimation, customized COA, low impurity profiles and kilogram-scale stability. This creates a clear price and margin gap between standard unsublimed product, high-purity research grade, sublimed OLED grade and customer-specific premium grade.

Looking ahead, mCP is expected to maintain stable demand as a classic OLED host material and research benchmark, but its long-term growth will be moderated by the emergence of proprietary host materials, TADF host systems, customized carbazole derivatives and panel-maker-specific material stacks. The most defensible suppliers will be those that can combine synthesis capability, purification technology, reliable sublimation, analytical testing and customer qualification support. China-based suppliers are likely to expand in custom synthesis and cost-sensitive supply, while Japan, Taiwan, Europe and research-chemical channels will remain relevant in high-purity, small-batch and R&D-oriented demand. For market sizing, mCP should be modeled as a narrow single-material market, not as a proxy for the full OLED host material industry.

This report is a detailed and comprehensive analysis for global 1,3-Bis(carbazol-9-yl)benzene market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by OLED Device 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 1,3-Bis(carbazol-9-yl)benzene market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global 1,3-Bis(carbazol-9-yl)benzene market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global 1,3-Bis(carbazol-9-yl)benzene market size and forecasts, by OLED Device Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global 1,3-Bis(carbazol-9-yl)benzene 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 1,3-Bis(carbazol-9-yl)benzene

- 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 1,3-Bis(carbazol-9-yl)benzene 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 Luminescence Technology Corp., Tokyo Chemical Industry Co., Ltd., Merck KGaA, Ossila Ltd., SunaTech Inc., Puri Materials, BLD Pharmatech Ltd., etc.

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

Market Segmentation

1,3-Bis(carbazol-9-yl)benzene market is split by OLED Device Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by OLED Device 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 OLED Device Type

Blue Phosphorescent OLED

Green Phosphorescent OLED

White OLED

TADF OLED

OLED Reference Devices

Other Organic Optoelectronic Devices

Market segment by Material Function

Emissive Layer Host Material

Reference Host Material

Intermediate for Host Derivatives

Organic Semiconductor Research Material

Analytical / Calibration Material

Market segment by Purification Route

Crude / As-synthesized Product

Column / Recrystallized Grade

Single Sublimation Grade

Multiple Sublimation Grade

Market segment by Application

Commercial OLED Material Supply

Academic and Institutional Research

Chemical Intermediate / Derivative Synthesis

Major players covered

Luminescence Technology Corp.

Tokyo Chemical Industry Co., Ltd.

Merck KGaA

Ossila Ltd.

SunaTech Inc.

Puri Materials

BLD Pharmatech Ltd.

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 1,3-Bis(carbazol-9-yl)benzene product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 1,3-Bis(carbazol-9-yl)benzene, with price, sales quantity, revenue, and global market share of 1,3-Bis(carbazol-9-yl)benzene from 2021 to 2026.

Chapter 3, the 1,3-Bis(carbazol-9-yl)benzene competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the 1,3-Bis(carbazol-9-yl)benzene 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 OLED Device Type and by Application, with sales market share and growth rate by OLED Device 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 1,3-Bis(carbazol-9-yl)benzene market forecast, by regions, by OLED Device 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 1,3-Bis(carbazol-9-yl)benzene.

Chapter 14 and 15, to describe 1,3-Bis(carbazol-9-yl)benzene sales channel, distributors, customers, research findings and conclusion.

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