

Global 1,3-Bis(carbazol-9-yl)benzene Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global 1,3-Bis(carbazol-9-yl)benzene market size is expected to reach \$ 12.02 million by 2032, rising at a market growth of 7.9% CAGR during the forecast period (2026-2032).

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 studies the global 1,3-Bis(carbazol-9-yl)benzene production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for 1,3-Bis(carbazol-9-yl)benzene 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 1,3-Bis(carbazol-9-yl)benzene that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global 1,3-Bis(carbazol-9-yl)benzene total production and demand, 2021-2032, (Tons)

Global 1,3-Bis(carbazol-9-yl)benzene total production value, 2021-2032, (USD Million)

Global 1,3-Bis(carbazol-9-yl)benzene production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global 1,3-Bis(carbazol-9-yl)benzene consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: 1,3-Bis(carbazol-9-yl)benzene domestic production, consumption, key domestic manufacturers and share

Global 1,3-Bis(carbazol-9-yl)benzene production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global 1,3-Bis(carbazol-9-yl)benzene production by OLED Device Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global 1,3-Bis(carbazol-9-yl)benzene production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global 1,3-Bis(carbazol-9-yl)benzene 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World 1,3-Bis(carbazol-9-yl)benzene 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 OLED Device 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 1,3-Bis(carbazol-9-yl)benzene Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global 1,3-Bis(carbazol-9-yl)benzene Market, Segmentation by OLED Device Type:

Blue Phosphorescent OLED

Green Phosphorescent OLED

White OLED

TADF OLED

OLED Reference Devices

Other Organic Optoelectronic Devices

Global 1,3-Bis(carbazol-9-yl)benzene Market, Segmentation by Material Function:

Emissive Layer Host Material

Reference Host Material

Intermediate for Host Derivatives

Organic Semiconductor Research Material

Analytical / Calibration Material

Global 1,3-Bis(carbazol-9-yl)benzene Market, Segmentation by Purification Route:

Crude / As-synthesized Product

Column / Recrystallized Grade

Single Sublimation Grade

Multiple Sublimation Grade

Global 1,3-Bis(carbazol-9-yl)benzene Market, Segmentation by Application:

Commercial OLED Material Supply

Academic and Institutional Research

Chemical Intermediate / Derivative Synthesis

Companies Profiled:

Luminescence Technology Corp.

Tokyo Chemical Industry Co., Ltd.

Merck KGaA

Ossila Ltd.

SunaTech Inc.

Puri Materials

BLD Pharmatech Ltd.

Key Questions Answered:

1. How big is the global 1,3-Bis(carbazol-9-yl)benzene market?
2. What is the demand of the global 1,3-Bis(carbazol-9-yl)benzene market?
3. What is the year over year growth of the global 1,3-Bis(carbazol-9-yl)benzene market?
4. What is the production and production value of the global 1,3-Bis(carbazol-9-yl)benzene market?
5. Who are the key producers in the global 1,3-Bis(carbazol-9-yl)benzene market?
6. What are the growth factors driving the market demand?

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