

Global BPhen Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G28510661B31EN.html>

Date: July 2026

Pages: 96

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

ID: G28510661B31EN

Abstracts

The global BPhen market size is expected to reach \$ 9.75 million by 2032, rising at a market growth of 7.6% CAGR during the forecast period (2026-2032).

BPhen, also known as bathophenanthroline or 4,7-diphenyl-1,10-phenanthroline, is a phenanthroline-based organic semiconductor molecule with CAS No. 1662-01-7 and the molecular formula C₂₄H₁₆N₂. It is commonly used in OLEDs, organic electronic devices and perovskite solar cells as an electron transport material, hole-blocking material, exciton-blocking interlayer or electron-injection interface modifier. It is also used as a phenanthroline ligand in analytical and coordination chemistry. Commercially, BPhen is supplied as high-purity powder, sublimation-purified OLED-grade material, research-grade reagent or customer-specific material, with quality requirements focusing on purity, sublimation grade, thermal stability, batch consistency, trace metal control and device compatibility.

According to our research, BPhen is a niche but important organic semiconductor material used primarily as an electron transport, hole-blocking, exciton-blocking or electron-injection interface material in OLEDs and related organic optoelectronic devices. It should not be treated as a bulk chemical or as a proxy for the entire OLED materials market. Its commercial demand is concentrated in OLED device R&D, pilot qualification, small-scale commercial material supply, perovskite and organic photovoltaic interface research, and research-grade chemical supply. The material also retains a secondary non-OLED role as a phenanthroline ligand and analytical reagent, which must be separated from the OLED-grade market when estimating demand.

From the supply side, the visible BPhen supplier base is fragmented and includes dedicated OLED material suppliers, high-purity research chemical companies,

sublimation-grade material vendors, custom synthesis providers and distributors. Lumtec and TCI have some of the clearest official BPhen product evidence, including sublimed and unsublimed grades. Sigma-Aldrich and Ossila provide strong research-grade and OLED-oriented supply channels, while Noctiluca, BLD, Synthonix, Strem, MSE Supplies and several Chinese B2B suppliers form the extended supplier pool. However, not all CAS-listed suppliers should be treated as true bulk manufacturers; many are better classified as catalog suppliers, repackagers, distributors or small-pack research chemical vendors.

From a product-positioning perspective, the key differentiation is shifting from basic purity to OLED-relevant quality control. Standard reagent-grade BPhen may be sufficient for analytical or early-stage research, while OLED device work often requires sublimation-purified material, consistent thermal behavior, low residual impurities, trace metal control and reliable batch-to-batch performance. Premium customers may also require customized COA, multiple sublimation, special packaging and kilogram-scale consistency. This creates a wide price gap between standard reagent-grade product, high-purity research grade, sublimed OLED grade and customer-specific premium supply.

Looking ahead, BPhen is expected to maintain stable demand as a classic ETL / HBL material and reference compound, but long-term growth will be moderated by proprietary electron transport materials, optimized cathode interface materials and panel-maker-specific device stacks. Suppliers with in-house synthesis, sublimation purification, analytical testing, device-grade quality control and customer qualification support will be better positioned than pure distributors. For market sizing, BPhen should be modeled as a narrow single-material market, not as a broad OLED electron transport materials market.

This report studies the global BPhen production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global BPhen total production and demand, 2021-2032, (Tons)

Global BPhen Supply, Demand and Key Producers, 2026-2032

Global BPhen total production value, 2021-2032, (USD Million)

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

Global BPhen consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: BPhen domestic production, consumption, key domestic manufacturers and share

Global BPhen production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global BPhen production by Material Function, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global BPhen production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global BPhen 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., Noctiluca S.A., BLD Pharmatech Ltd., Synthonix, Inc., Strem Chemicals, MSE Supplies LLC, 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 BPhen 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 Material Function, 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 BPhen Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global BPhen Market, Segmentation by Material Function:

Electron Transport Layer Material

Hole Blocking Layer Material

Electron Injection / Cathode Interface Material

Exciton Blocking / Interlayer Material

Analytical / Coordination Ligand Material

Other Functional Research Material

Global BPhen Market, Segmentation by Purification Route:

As-synthesized / Crude Product

Recrystallized / Column-purified Grade

Single Sublimation Grade

Multiple Sublimation Grade

Global BPhen Market, Segmentation by OLED Layer Position:

Electron Transport Layer

Hole Blocking Layer

Exciton Blocking Layer

Electron Injection / Cathode Interface Layer

Reference / Control Layer

Global BPhen Market, Segmentation by Application:

OLED ETL / HBL R&D

OLED Device Qualification

Perovskite / Organic Photovoltaic Interface Research

Analytical / Ligand / Metal Detection Use

Companies Profiled:

Luminescence Technology Corp.

Tokyo Chemical Industry Co., Ltd.

Merck KGaA

Ossila Ltd.

Noctiluca S.A.

BLD Pharmatech Ltd.

Synthonix, Inc.

Strem Chemicals

MSE Supplies LLC

Key Questions Answered:

1. How big is the global BPhen market?
2. What is the demand of the global BPhen market?
3. What is the year over year growth of the global BPhen market?
4. What is the production and production value of the global BPhen market?
5. Who are the key producers in the global BPhen market?
6. What are the growth factors driving the market demand?

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