

Global BPhen 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 BPhen market size was valued at US\$ 5.76 million in 2025 and is forecast to a readjusted size of US\$ 9.75 million by 2032 with a CAGR of 7.6% during review period.

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 is a detailed and comprehensive analysis for global BPhen market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Material Function 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 BPhen market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

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

Global BPhen market size and forecasts, by Material Function and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global BPhen 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 BPhen

- 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 BPhen 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., 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.

Market Segmentation

BPhen market is split by Material Function and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Material Function, 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 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

Market segment by Purification Route

As-synthesized / Crude Product

Recrystallized / Column-purified Grade

Single Sublimation Grade

Multiple Sublimation Grade

Market segment by OLED Layer Position

Electron Transport Layer

Hole Blocking Layer

Exciton Blocking Layer

Electron Injection / Cathode Interface Layer

Reference / Control Layer

Market segment by Application

OLED ETL / HBL R&D

OLED Device Qualification

Perovskite / Organic Photovoltaic Interface Research

Analytical / Ligand / Metal Detection Use

Major players covered

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

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 BPhen product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the BPhen 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 Material Function and by Application, with sales market share and growth rate by Material Function, 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 BPhen market forecast, by regions, by Material Function, 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

BPhen.

Chapter 14 and 15, to describe BPhen sales channel, distributors, customers, research findings and conclusion.

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