

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

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Abstracts

The global Bathocuproine market size is expected to reach \$ 39.32 million by 2032, rising at a market growth of 7.9% CAGR during the forecast period (2026-2032).

Bathocuproine, commonly abbreviated as BCP, is 2,9-dimethyl-4,7-diphenyl-1,10-phenanthroline, CAS 4733-39-5. It is a phenanthroline-based organic small molecule used both as a Cu(I)-selective colorimetric reagent and as an organic electronic interlayer material. In OLEDs, OPVs and perovskite solar cells, BCP is mainly used as an electron-transport, electron-injection, hole-blocking or exciton-blocking interlayer.

Bathocuproine should be treated as a single functional small-molecule material, not as the broader OLED electron-transport material market, perovskite solar cell material market, or copper-reagent market. The correct scope is Bathocuproine / BCP / 2,9-dimethyl-4,7-diphenyl-1,10-phenanthroline / CAS 4733-39-5. It should not be mixed with BPhen, neocuproine, cuproine, bathocuproine disulfonate, 1,10-phenanthroline, or downstream OLED/OPV/perovskite device revenue.

From the demand side, BCP has a dual-use profile. In organic electronics, it is used as an electron transport, hole blocking, exciton blocking, electron injection, or cathode interlayer material in OLEDs, organic photovoltaics and perovskite solar cells. In analytical chemistry, it is used as a Cu(I) colorimetric reagent. The growth driver is increasingly organic electronics and perovskite/OPV research rather than traditional copper analysis alone.

From the supply side, Lumtec, Noctiluca and Ossila have some of the clearest public evidence for BCP as an organic electronics material. TCI, Sigma-Aldrich, FUJIFILM

Wako, Glentham, Ambeed and MSE Supplies are stronger as high-purity, catalog, analytical or research-grade suppliers. SunaTech is relevant as an organic electronics material supplier, but its current product-page evidence should be rechecked. Platform listings should not be treated as manufacturer evidence.

The key product differentiation factors are sublimation grade, HPLC purity, trace-metal control, thermal stability, evaporation residue, film-forming behavior, UV/optical consistency and batch-to-batch reproducibility. For OLED, OPV and perovskite applications, customers care about more than nominal purity; they also need stable energy-level matching, good interfacial behavior, low metal contamination and reliable thin-film performance.

Commercially, BCP is a small-volume but higher-value interface-material market. Its volume is larger than iridium phosphorescent dopants such as Ir(ppy)₃ or FIrpic, but it is still far from a bulk chemical. Market size should therefore be modeled as a specialty organic electronic material plus analytical reagent segment, with separate pricing assumptions for sublimed electronic grade, high-purity research grade and analytical reagent grade.

Looking ahead, BCP demand is likely to be supported by continued research and pilot use in OLEDs, OPVs and perovskite solar cells, especially where a simple and well-known interlayer material is needed. The main risks are substitution by alternative ETL/HBL materials, changes in device architecture, uncertainty in perovskite commercialization, and the fact that many visible suppliers are catalog or distribution channels rather than confirmed producers.

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

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

Highlights and key features of the study

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

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

Global Bathocuproine production by region & country, production, value, CAGR,

2021-2032, (USD Million) & (Tons), (based on production site)

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

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

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

Global Bathocuproine production by Product Grade, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

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

This report profiles key players in the global Bathocuproine 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., Noctiluca S.A., Ossila Ltd., Tokyo Chemical Industry Co., Ltd., Merck KGaA, SunaTech Inc., MSE Supplies, Ambeed, Glentham Life Sciences, FUJIFILM Wako Pure Chemical, 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 Bathocuproine 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 Product Grade, 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 Bathocuproine Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Bathocuproine Market, Segmentation by Product Grade:

Sublimed OLED / PSC Grade ≥99.5%

Sublimed Grade ≥99.0%

High-purity Research Grade 98%~99%

Analytical Reagent Grade

Trace-metal Controlled Grade

Global Bathocuproine Market, Segmentation by Material Function:

Electron Transport Material

Hole Blocking Material

Exciton Blocking Material

Cathode Interlayer / Buffer Material

Cu(I) Colorimetric Reagent

Phenanthroline Ligand / Research Material

Global Bathocuproine Market, Segmentation by Purification Route:

Single Sublimation Purified

Multiple Sublimation Purified

Recrystallization Purified

Chromatography Purified

Trace-metal Controlled Purification

Global Bathocuproine Market, Segmentation by Application:

OLED ETL / HBL / EIL Material

Perovskite Solar Cell Interlayer

Organic Photovoltaic Buffer Layer

Copper(I) Colorimetric Reagent

Phenanthroline Ligand / Coordination Chemistry

Companies Profiled:

Luminescence Technology Corp.

Noctiluca S.A.

Ossila Ltd.

Tokyo Chemical Industry Co., Ltd.

Merck KGaA

SunaTech Inc.

MSE Supplies

Ambeed

Glentham Life Sciences

FUJIFILM Wako Pure Chemical

Key Questions Answered:

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

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