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

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Abstracts

The global TPBi market size is expected to reach $ 47.28 million by 2032, rising at a market growth of 7.1% CAGR during the forecast period (2026-2032).

TPBi, or 1,3,5-tris(1-phenyl-1H-benzimidazol-2-yl)benzene, is a benzimidazole-based organic semiconductor used mainly as an electron transport, electron injection, hole blocking, exciton blocking and host material in OLEDs, perovskite LEDs and other optoelectronic devices.

TPBi, or 1,3,5-Tris(1-phenyl-1H-benzimidazol-2-yl)benzene, is a classic small-molecule OLED material mainly used as an electron transport material, hole-blocking material, and host material. Its CAS number is 192198-85-9, and commercial suppliers typically offer it as a high-purity OLED-related material; for example, TCI lists TPBi with a purity of >98.0% by HPLC. Demand for TPBi is mainly driven by OLED display R&D, OLED lighting research, blue and phosphorescent OLED device development, and small-batch validation by material companies and research institutions. Its key advantages include well-established device compatibility, useful energy-level alignment, strong hole-blocking capability, and extensive academic reference value. Published research has reported TPBi as an electron-transporting layer for fluorescent OLEDs, as well as a host or electron-transporting/hole-blocking layer for phosphorescent OLEDs.

From a commercialization perspective, TPBi should be viewed as a mature functional OLED material rather than a large-volume commodity chemical. Its market potential is relatively niche compared with emissive dopants, host materials, or downstream OLED panel materials. As OLED device architectures continue to evolve, newer electron transport materials with higher mobility, better stability, or longer device lifetime may partially replace TPBi in advanced devices. Recent studies often use TPBi as a

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benchmark or control material when evaluating new electron transport materials, which indicates both its reference importance and its replacement pressure. Therefore, the main opportunity for TPBi lies in high-purity OLED-grade supply, R&D-grade materials, custom synthesis, sublimation purification, and stable small-batch supply to OLED material developers. Future competition will focus on purity, batch consistency, sublimation capability, metal impurity control, and device-level validation support.

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

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

Highlights and key features of the study
Global TPBi total production and demand, 2021-2032, (Tons)
Global TPBi total production value, 2021-2032, (USD Million)
Global TPBi production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)
Global TPBi consumption by region & country, CAGR, 2021-2032 & (Tons)
U.S. VS China: TPBi domestic production, consumption, key domestic manufacturers and share
Global TPBi production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)
Global TPBi production by Product Grade, production, value, CAGR, 2021-2032, (USD Million) & (Tons)
Global TPBi production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global TPBi 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., SunaTech Inc., Noctiluca S.A., BLD Pharmatech Ltd., 1-Material Inc., Tokyo Chemical Industry Co., Ltd., Merck KGaA, etc.

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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 TPBi 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 TPBi Market, By Region:

- United States
- China
- Europe
- Japan
- South Korea
- ASEAN
- India
- Rest of World

Global TPBi Market, Segmentation by Product Grade:

- Sublimed Electronic Grade ?99.9%
- Sublimed Electronic Grade ?99.5%

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Sublimed / High-purity Grade ?99.0%

Unsublimed High-purity Grade 98%?99%

Research / Catalog Grade

Customer-specific COA Grade

Global TPBi Market, Segmentation by Material Function:

Electron Transport Material

Hole Blocking Material

Exciton Blocking Material

Electron Injection / Cathode Buffer Material

Global TPBi Market, Segmentation by Purification Route:

Multiple Sublimation Purified

Single Sublimation Purified

Column Chromatography Purified

Recrystallization Purified

Trace-metal Controlled Purification

Global TPBi Market, Segmentation by Application:

OLED ETL / HBL / EIL Material

Perovskite LED ETL / Interface Material

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Host Material for Fluorescent / Phosphorescent / TADF LEDs

OPV / OPD / OTFT Interlayer

QLED / Quantum-dot LED ETL

Companies Profiled:

Luminescence Technology Corp.

SunaTech Inc.

Noctiluca S.A.

BLD Pharmatech Ltd.

1-Material Inc.

Tokyo Chemical Industry Co., Ltd.

Merck KGaA

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

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