

Global Tris(2-phenylpyridine)iridium Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Tris(2-phenylpyridine)iridium market size is expected to reach \$ 28.55 million by 2032, rising at a market growth of 6.1% CAGR during the forecast period (2026-2032).

Ir(ppy)₃, or tris(2-phenylpyridine)iridium(III), is a benchmark green phosphorescent iridium complex used mainly as an OLED emitter dopant and as a photoredox catalyst. It is a cyclometalated Ir(III) complex with three 2-phenylpyridine ligands. In OLEDs, it is valued for efficient triplet emission, high phosphorescence quantum yield and green emission.

Ir(ppy)₃ should be treated as a single benchmark green phosphorescent iridium complex, not as the whole PHOLED emitter market. It is widely used in OLED research because of its green triplet emission, high quantum yield and thermal stability; Ossila describes it as one of the most successful green triplet emitters for OLED devices, while Lumtec and Sigma-Aldrich list OLED-grade or sublimed-grade product forms.

From the demand side, Ir(ppy)₃ is most important in OLED R&D, device benchmarking, host-material evaluation and green PHOLED structure testing. It is also widely used as a photoredox catalyst in organic synthesis and as a reference emitter in electrochemiluminescence or photophysical studies. For market sizing, the correct scope is Ir(ppy)₃ as a standalone material, including sublimed OLED grade, high-purity research grade and photocatalyst grade; OLED panels, proprietary commercial emitter systems and other iridium complexes should not be included.

From the supply side, the market is fragmented and small-volume. Lumtec and SunaTech are among the clearest OLED-material suppliers with public Ir(ppy)₃ product

evidence; Ossila, TCI and Sigma-Aldrich are strong research-grade or small-package channels. UDC is highly important in the broader PHOLED industry, but its UniversalPHOLED[®] materials are proprietary commercial systems, so it should not be automatically counted as an Ir(ppy)₃ producer unless a specific Ir(ppy)₃ product is disclosed.

Product differentiation is mainly about sublimation grade, purity, thermal stability, PL consistency, residual ligand control, fac/mer isomer control, metal salt residues and batch-to-batch reproducibility. For OLED evaporation tests, customers care about more than HPLC purity; they also look at TGA behavior, sublimation residue, emission spectrum, device repeatability and compatibility with host materials.

Looking ahead, Ir(ppy)₃ will likely remain a high-value, low-volume benchmark material rather than a large commercial display emitter. Commercial OLED production often uses proprietary green phosphorescent materials optimized for lifetime, color point, efficiency and licensing constraints. Ir(ppy)₃'s strongest role is therefore as a reference green emitter, OLED R&D dopant, host-screening material and photoredox catalyst, not as a mass-market panel material.

This report studies the global Tris(2-phenylpyridine)iridium production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Tris(2-phenylpyridine)iridium 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 Tris(2-phenylpyridine)iridium that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Tris(2-phenylpyridine)iridium total production and demand, 2021-2032, (Tons)

Global Tris(2-phenylpyridine)iridium total production value, 2021-2032, (USD Million)

Global Tris(2-phenylpyridine)iridium production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Tris(2-phenylpyridine)iridium consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Tris(2-phenylpyridine)iridium domestic production, consumption, key domestic manufacturers and share

Global Tris(2-phenylpyridine)iridium production by manufacturer, production, price,

value and market share 2021-2026, (USD Million) & (Tons)

Global Tris(2-phenylpyridine)iridium production by Product Grade, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Tris(2-phenylpyridine)iridium production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Tris(2-phenylpyridine)iridium 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., Ossila Ltd., Shine Materials Technology Co., Ltd., Puri Materials Co., Ltd., Tokyo Chemical Industry Co., Ltd., MilliporeSigma, BLD Pharmatech Ltd., Universal Display Corporation, Jilin OLED Material Tech Co., 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 Tris(2-phenylpyridine)iridium 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 Tris(2-phenylpyridine)iridium Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Tris(2-phenylpyridine)iridium Market, Segmentation by Product Grade:

Sublimed OLED Grade ≥99.5%

Sublimed OLED Grade ≥99.0%

High-purity Research Grade 98%–99%

Photocatalyst / Synthetic Grade

Global Tris(2-phenylpyridine)iridium Market, Segmentation by Material Function:

Green Phosphorescent Emitter

Photoredox Catalyst

OLED Benchmark Material

Electrochemiluminescent Material

Triplet Energy / Host Evaluation Dopant

Global Tris(2-phenylpyridine)iridium Market, Segmentation by Purification Route:

Single Sublimation Purified

Multiple Sublimation Purified

Chromatography / Recrystallization Purified

Global Tris(2-phenylpyridine)iridium Market, Segmentation by Application:

OLED Green Phosphorescent Dopant R&D

Photoredox Catalysis

Electrochemiluminescence / Sensing

Companies Profiled:

Luminescence Technology Corp.

SunaTech Inc.

Ossila Ltd.

Shine Materials Technology Co., Ltd.

Puri Materials Co., Ltd.

Tokyo Chemical Industry Co., Ltd.

MilliporeSigma

BLD Pharmatech Ltd.

Universal Display Corporation

Jilin OLED Material Tech Co., Ltd.

Key Questions Answered:

1. How big is the global Tris(2-phenylpyridine)iridium market?
2. What is the demand of the global Tris(2-phenylpyridine)iridium market?
3. What is the year over year growth of the global Tris(2-phenylpyridine)iridium market?
4. What is the production and production value of the global

Tris(2-phenylpyridine)iridium market?

5. Who are the key producers in the global Tris(2-phenylpyridine)iridium market?

6. What are the growth factors driving the market demand?

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