

Global Formamidinium Lead Iodide 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 Formamidinium Lead Iodide market size was valued at US\$ 12.35 million in 2025 and is forecast to a readjusted size of US\$ 65.51 million by 2032 with a CAGR of 23.4% during review period.

FAPbI₂, or formamidinium lead iodide, is an organic-inorganic halide perovskite semiconductor composed of formamidinium cations, lead cations and iodide anions. It is one of the most important narrow-bandgap absorber materials for perovskite photovoltaics. FAPbI₂ is typically formed from formamidinium iodide and lead iodide precursors and is widely used in high-efficiency single-junction perovskite solar cells, perovskite-silicon tandem cells, all-perovskite tandem cells and other optoelectronic devices. Its advantages include a favorable bandgap, strong optical absorption and improved thermal stability relative to methylammonium lead iodide. Its main technical challenge is the stabilization of the black photoactive γ -phase against transformation into the yellow non-photoactive δ -phase under practical operating conditions.

Based on our research, FAPbI₂ is best understood as a core parent absorber material for high-efficiency perovskite photovoltaics rather than a conventional laboratory reagent. Its value comes from its narrow bandgap, strong optical absorption and improved thermal stability relative to MAPbI₃, making it one of the most important FA-based absorber systems for high-efficiency single-junction perovskite solar cells and perovskite-silicon tandem cells. At the same time, the phase stability issue of γ -FAPbI₂ means that it is unlikely to be commercialized simply as a pure bulk FAPbI₂ material. In real devices, the commercially relevant form is more likely to be a stabilized FA-rich perovskite composition modified with Cs, MA, Br, Cl, 2D additives or other defect-

passivation strategies. From a product-form perspective, FAPbI₂ powders and microcrystalline materials mainly serve the research market. They carry high unit prices but remain limited in total market size. The industrially relevant products are more likely to be FA-based precursor solutions, perovskite inks and proprietary in-house formulations used by downstream module manufacturers. As perovskite coating, vapor deposition, blade coating and slot-die coating processes move toward large-area manufacturing, supplier competition will shift from the ability to synthesize FAPbI₂ to the ability to provide low-impurity, low-moisture, batch-consistent precursor systems with controllable crystallization windows and compatibility with scalable coating processes. From the competitive landscape perspective, the visible market today is still dominated by R&D material suppliers such as Ossila, Borun, TCI and Merck/Sigma-Aldrich, which can serve laboratory and pilot-scale demand. However, the larger industrial value is likely to be captured by perovskite module companies, solar cell manufacturers and customized material partners that control proprietary FA-rich perovskite formulations. Downstream players usually treat FA-based absorber formulations as core process know-how, so external material suppliers seeking entry into the mass-production supply chain must demonstrate high-purity precursor synthesis, solvent-system development, additive compatibility, batch consistency and joint process validation with customers. Looking forward, FAPbI₂-related materials represent a segment with a small research market today but high long-term industrial potential. In the short term, the market for FAPbI₂ powders and standalone research materials will remain limited and driven mainly by academic and pilot-scale demand. Over the medium to long term, demand for FA-based lead iodide perovskite precursors and inks could grow rapidly as perovskite/silicon tandems, all-perovskite tandems and large-area perovskite modules scale up. The pace of adoption will depend on progress in module reliability, lead management, green-solvent processing, large-area coating yield and long-term outdoor stability validation.

This report is a detailed and comprehensive analysis for global Formamidinium Lead Iodide market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Composition Route 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 Formamidinium Lead Iodide market size and forecasts, in consumption value (\$

Million), sales quantity (Kg), and average selling prices (US\$/Kg), 2021-2032

Global Formamidinium Lead Iodide market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Kg), and average selling prices (US\$/Kg), 2021-2032

Global Formamidinium Lead Iodide market size and forecasts, by Composition Route and by Application, in consumption value (\$ Million), sales quantity (Kg), and average selling prices (US\$/Kg), 2021-2032

Global Formamidinium Lead Iodide market shares of main players, shipments in revenue (\$ Million), sales quantity (Kg), and ASP (US\$/Kg), 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 Formamidinium Lead Iodide

- 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 Formamidinium Lead Iodide 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 Ossila Ltd., Borun Chemical, Dyenamo AB, Greatcell Solar Materials, Noctiluca, Merck, TCI Chemicals, Xi'an Polymer Light Technology, Avantama AG, Solaronix SA, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Formamidinium Lead Iodide market is split by Composition Route and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Composition Route, 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 Composition Route

Pure FAPbI?

FA-rich Mixed-cation Perovskite

FA/Cs Lead Iodide Perovskite

FA/MA Lead Iodide Perovskite

FA-based Mixed-halide Perovskite

2D/3D FAPbI?-based Perovskite

Doped FAPbI? Perovskite

Market segment by Deposition Process

One-step Solution Deposition

Two-step Sequential Deposition

Antisolvent-assisted Spin Coating

Blade Coating / Slot-die Coating

Vapor Deposition

Hybrid Vapor?Solution Process

Ambient / Green-solvent Process

Market segment by Phase and Stability Strategy

?-phase FAPbI?

?-phase FAPbI?

Phase-stabilized FAPbI?

Cs-stabilized FAPbI?

MA-assisted FAPbI?

2D-capped FAPbI?

Market segment by Application

Single-junction Perovskite Solar Cells

Perovskite?Silicon Tandem Solar Cells

All-perovskite Tandem Solar Cells

Photodetectors

X-ray / Radiation Detectors

LEDs and Light-emitting Devices

Major players covered

Ossila Ltd.

Borun Chemical

Dyename AB

Greatcell Solar Materials

Noctiluca

Merck

TCI Chemicals

Xi'an Polymer Light Technology

Avantama AG

Solaronix SA

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 Formamidinium Lead Iodide product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Formamidinium Lead Iodide 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 Composition Route and by Application, with sales market share and growth rate by Composition Route, 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 Formamidinium Lead Iodide market forecast, by regions, by Composition Route, 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 Formamidinium Lead Iodide.

Chapter 14 and 15, to describe Formamidinium Lead Iodide sales channel, distributors, customers, research findings and conclusion.

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