

Global Formamidinium Lead Iodide Market Growth 2026-2032

<https://marketpublishers.com/r/G47B5ACAD7C3EN.html>

Date: July 2026

Pages: 92

Price: US\$ 3,660.00 (Single User License)

ID: G47B5ACAD7C3EN

Abstracts

The global Formamidinium Lead Iodide market size is predicted to grow from US\$ 11.74 million in 2025 to US\$ 66.84 million in 2032; it is expected to grow at a CAGR of 24.9% from 2026 to 2032.

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 α -phase against transformation into the yellow non-photoactive β -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 β -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.

LP Information, Inc. (LPI) ' newest research report, the "Formamidinium Lead Iodide Industry Forecast" looks at past sales and reviews total world Formamidinium Lead Iodide sales in 2025, providing a comprehensive analysis by region and market sector of projected Formamidinium Lead Iodide sales for 2026 through 2032. With Formamidinium Lead Iodide sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Formamidinium Lead Iodide industry.

This Insight Report provides a comprehensive analysis of the global Formamidinium Lead Iodide landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Formamidinium Lead Iodide portfolios and capabilities, market entry strategies, market

positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Formamidinium Lead Iodide market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Formamidinium Lead Iodide and breaks down the forecast by Composition Route, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Formamidinium Lead Iodide.

This report presents a comprehensive overview, market shares, and growth opportunities of Formamidinium Lead Iodide market by product type, application, key manufacturers and key regions and countries.

Segmentation by Composition Route:

- Pure FAPbI₂
- FA-rich Mixed-cation Perovskite
- FA/Cs Lead Iodide Perovskite
- FA/MA Lead Iodide Perovskite
- FA-based Mixed-halide Perovskite
- 2D/3D FAPbI₂-based Perovskite
- Doped FAPbI₂ Perovskite

Segmentation 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

Segmentation by Phase and Stability Strategy:

α-phase FAPbI₃

β-phase FAPbI₃

Phase-stabilized FAPbI₃

Cs-stabilized FAPbI₃

MA-assisted FAPbI₃

2D-capped FAPbI₃

Segmentation 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

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Ossila Ltd.

Borun Chemical

Dyename AB

Greatcell Solar Materials

Noctiluca

Merck

TCI Chemicals

Xi'an Polymer Light Technology

Avantama AG

Solaronix SA

Key Questions Addressed in this Report

What is the 10-year outlook for the global Formamidinium Lead Iodide market?

What factors are driving Formamidinium Lead Iodide market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Formamidinium Lead Iodide market opportunities vary by end market size?

How does Formamidinium Lead Iodide break out by Composition Route, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global Formamidinium Lead Iodide Annual Sales 2021-2032
 - 2.1.2 World Current & Future Analysis for Formamidinium Lead Iodide by Geographic Region, 2021, 2025 & 2032
 - 2.1.3 World Current & Future Analysis for Formamidinium Lead Iodide by Country/Region, 2021, 2025 & 2032
- 2.2 Formamidinium Lead Iodide Segment by Composition Route
 - 2.2.1 Pure FAPbI₃
 - 2.2.2 FA-rich Mixed-cation Perovskite
 - 2.2.3 FA/Cs Lead Iodide Perovskite
 - 2.2.4 FA/MA Lead Iodide Perovskite
 - 2.2.5 FA-based Mixed-halide Perovskite
 - 2.2.6 2D/3D FAPbI₃-based Perovskite
 - 2.2.7 Doped FAPbI₃ Perovskite
 - 2.2.8 Formamidinium Lead Iodide Sales by Composition Route
 - 2.2.8.1 Global Formamidinium Lead Iodide Sales Market Share by Composition Route (2021-2026)
 - 2.2.8.2 Global Formamidinium Lead Iodide Revenue and Market Share by Composition Route (2021-2026)
 - 2.2.8.3 Global Formamidinium Lead Iodide Sale Price by Composition Route (2021-2026)
- 2.3 Formamidinium Lead Iodide Segment by Deposition Process
 - 2.3.1 One-step Solution Deposition
 - 2.3.2 Two-step Sequential Deposition

- 2.3.3 Antisolvent-assisted Spin Coating
- 2.3.4 Blade Coating / Slot-die Coating
- 2.3.5 Vapor Deposition
- 2.3.6 Hybrid Vapor?Solution Process
- 2.3.7 Ambient / Green-solvent Process
- 2.3.8 Formamidinium Lead Iodide Sales by Deposition Process
 - 2.3.8.1 Global Formamidinium Lead Iodide Sales Market Share by Deposition Process (2021-2026)
 - 2.3.8.2 Global Formamidinium Lead Iodide Revenue and Market Share by Deposition Process (2021-2026)
 - 2.3.8.3 Global Formamidinium Lead Iodide Sale Price by Deposition Process (2021-2026)
- 2.4 Formamidinium Lead Iodide Segment by Phase and Stability Strategy
 - 2.4.1 γ -phase FAPbI?
 - 2.4.2 β -phase FAPbI?
 - 2.4.3 Phase-stabilized FAPbI?
 - 2.4.4 Cs-stabilized FAPbI?
 - 2.4.5 MA-assisted FAPbI?
 - 2.4.6 2D-capped FAPbI?
 - 2.4.7 Formamidinium Lead Iodide Sales by Phase and Stability Strategy
 - 2.4.7.1 Global Formamidinium Lead Iodide Sales Market Share by Phase and Stability Strategy (2021-2026)
 - 2.4.7.2 Global Formamidinium Lead Iodide Revenue and Market Share by Phase and Stability Strategy (2021-2026)
 - 2.4.7.3 Global Formamidinium Lead Iodide Sale Price by Phase and Stability Strategy (2021-2026)
- 2.5 Formamidinium Lead Iodide Segment by Application
 - 2.5.1 Single-junction Perovskite Solar Cells
 - 2.5.2 Perovskite?Silicon Tandem Solar Cells
 - 2.5.3 All-perovskite Tandem Solar Cells
 - 2.5.4 Photodetectors
 - 2.5.5 X-ray / Radiation Detectors
 - 2.5.6 LEDs and Light-emitting Devices
 - 2.5.7 Formamidinium Lead Iodide Sales by Application
 - 2.5.7.1 Global Formamidinium Lead Iodide Sale Market Share by Application (2021-2026)
 - 2.5.7.2 Global Formamidinium Lead Iodide Revenue and Market Share by Application (2021-2026)
 - 2.5.7.3 Global Formamidinium Lead Iodide Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Formamidinium Lead Iodide Breakdown Data by Company

3.1.1 Global Formamidinium Lead Iodide Annual Sales by Company (2021-2026)

3.1.2 Global Formamidinium Lead Iodide Sales Market Share by Company (2021-2026)

3.2 Global Formamidinium Lead Iodide Annual Revenue by Company (2021-2026)

3.2.1 Global Formamidinium Lead Iodide Revenue by Company (2021-2026)

3.2.2 Global Formamidinium Lead Iodide Revenue Market Share by Company (2021-2026)

3.3 Global Formamidinium Lead Iodide Sale Price by Company

3.4 Key Manufacturers Formamidinium Lead Iodide Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Formamidinium Lead Iodide Product Location Distribution

3.4.2 Players Formamidinium Lead Iodide Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR FORMAMIDINIUM LEAD IODIDE BY GEOGRAPHIC REGION

4.1 World Historic Formamidinium Lead Iodide Market Size by Geographic Region (2021-2026)

4.1.1 Global Formamidinium Lead Iodide Annual Sales by Geographic Region (2021-2026)

4.1.2 Global Formamidinium Lead Iodide Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Formamidinium Lead Iodide Market Size by Country/Region (2021-2026)

4.2.1 Global Formamidinium Lead Iodide Annual Sales by Country/Region (2021-2026)

4.2.2 Global Formamidinium Lead Iodide Annual Revenue by Country/Region (2021-2026)

4.3 Americas Formamidinium Lead Iodide Sales Growth

4.4 APAC Formamidinium Lead Iodide Sales Growth

4.5 Europe Formamidinium Lead Iodide Sales Growth

4.6 Middle East & Africa Formamidinium Lead Iodide Sales Growth

5 AMERICAS

5.1 Americas Formamidinium Lead Iodide Sales by Country

5.1.1 Americas Formamidinium Lead Iodide Sales by Country (2021-2026)

5.1.2 Americas Formamidinium Lead Iodide Revenue by Country (2021-2026)

5.2 Americas Formamidinium Lead Iodide Sales by Composition Route (2021-2026)

5.3 Americas Formamidinium Lead Iodide Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Formamidinium Lead Iodide Sales by Region

6.1.1 APAC Formamidinium Lead Iodide Sales by Region (2021-2026)

6.1.2 APAC Formamidinium Lead Iodide Revenue by Region (2021-2026)

6.2 APAC Formamidinium Lead Iodide Sales by Composition Route (2021-2026)

6.3 APAC Formamidinium Lead Iodide Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Formamidinium Lead Iodide by Country

7.1.1 Europe Formamidinium Lead Iodide Sales by Country (2021-2026)

7.1.2 Europe Formamidinium Lead Iodide Revenue by Country (2021-2026)

7.2 Europe Formamidinium Lead Iodide Sales by Composition Route (2021-2026)

7.3 Europe Formamidinium Lead Iodide Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Formamidinium Lead Iodide by Country

8.1.1 Middle East & Africa Formamidinium Lead Iodide Sales by Country (2021-2026)

8.1.2 Middle East & Africa Formamidinium Lead Iodide Revenue by Country
(2021-2026)

8.2 Middle East & Africa Formamidinium Lead Iodide Sales by Composition Route
(2021-2026)

8.3 Middle East & Africa Formamidinium Lead Iodide Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Formamidinium Lead Iodide

10.3 Manufacturing Process Analysis of Formamidinium Lead Iodide

10.4 Industry Chain Structure of Formamidinium Lead Iodide

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Formamidinium Lead Iodide Distributors

11.3 Formamidinium Lead Iodide Customer

12 WORLD FORECAST REVIEW FOR FORMAMIDINIUM LEAD IODIDE BY GEOGRAPHIC REGION

12.1 Global Formamidinium Lead Iodide Market Size Forecast by Region

12.1.1 Global Formamidinium Lead Iodide Forecast by Region (2027-2032)

12.1.2 Global Formamidinium Lead Iodide Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global Formamidinium Lead Iodide Forecast by Composition Route (2027-2032)

12.7 Global Formamidinium Lead Iodide Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Ossila Ltd.

13.1.1 Ossila Ltd. Company Information

13.1.2 Ossila Ltd. Formamidinium Lead Iodide Product Portfolios and Specifications

13.1.3 Ossila Ltd. Formamidinium Lead Iodide Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 Ossila Ltd. Main Business Overview

13.1.5 Ossila Ltd. Latest Developments

13.2 Borun Chemical

13.2.1 Borun Chemical Company Information

13.2.2 Borun Chemical Formamidinium Lead Iodide Product Portfolios and Specifications

13.2.3 Borun Chemical Formamidinium Lead Iodide Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Borun Chemical Main Business Overview

13.2.5 Borun Chemical Latest Developments

13.3 Dyenamo AB

13.3.1 Dyenamo AB Company Information

13.3.2 Dyenamo AB Formamidinium Lead Iodide Product Portfolios and Specifications

13.3.3 Dyenamo AB Formamidinium Lead Iodide Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 Dyenamo AB Main Business Overview

13.3.5 Dyenamo AB Latest Developments

13.4 Greatcell Solar Materials

13.4.1 Greatcell Solar Materials Company Information

13.4.2 Greatcell Solar Materials Formamidinium Lead Iodide Product Portfolios and Specifications

13.4.3 Greatcell Solar Materials Formamidinium Lead Iodide Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 Greatcell Solar Materials Main Business Overview

13.4.5 Greatcell Solar Materials Latest Developments

13.5 Noctiluca

13.5.1 Noctiluca Company Information

13.5.2 Noctiluca Formamidinium Lead Iodide Product Portfolios and Specifications

13.5.3 Noctiluca Formamidinium Lead Iodide Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 Noctiluca Main Business Overview

13.5.5 Noctiluca Latest Developments

13.6 Merck

13.6.1 Merck Company Information

13.6.2 Merck Formamidinium Lead Iodide Product Portfolios and Specifications

13.6.3 Merck Formamidinium Lead Iodide Sales, Revenue, Price and Gross Margin (2021-2026)

13.6.4 Merck Main Business Overview

13.6.5 Merck Latest Developments

13.7 TCI Chemicals

13.7.1 TCI Chemicals Company Information

13.7.2 TCI Chemicals Formamidinium Lead Iodide Product Portfolios and Specifications

13.7.3 TCI Chemicals Formamidinium Lead Iodide Sales, Revenue, Price and Gross Margin (2021-2026)

13.7.4 TCI Chemicals Main Business Overview

13.7.5 TCI Chemicals Latest Developments

13.8 Xi'an Polymer Light Technology

13.8.1 Xi'an Polymer Light Technology Company Information

13.8.2 Xi'an Polymer Light Technology Formamidinium Lead Iodide Product Portfolios and Specifications

13.8.3 Xi'an Polymer Light Technology Formamidinium Lead Iodide Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 Xi'an Polymer Light Technology Main Business Overview

13.8.5 Xi'an Polymer Light Technology Latest Developments

13.9 Avantama AG

13.9.1 Avantama AG Company Information

13.9.2 Avantama AG Formamidinium Lead Iodide Product Portfolios and Specifications

13.9.3 Avantama AG Formamidinium Lead Iodide Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 Avantama AG Main Business Overview

13.9.5 Avantama AG Latest Developments

13.10 Soloronix SA

13.10.1 Soloronix SA Company Information

13.10.2 Soloronix SA Formamidinium Lead Iodide Product Portfolios and Specifications

13.10.3 Soloronix SA Formamidinium Lead Iodide Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 Soloronix SA Main Business Overview

13.10.5 Soloronix SA Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Formamidinium Lead Iodide Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Formamidinium Lead Iodide Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Pure FAPbI?

Table 4. Major Players of FA-rich Mixed-cation Perovskite

Table 5. Major Players of FA/Cs Lead Iodide Perovskite

Table 6. Major Players of FA/MA Lead Iodide Perovskite

Table 7. Major Players of FA-based Mixed-halide Perovskite

Table 8. Major Players of 2D/3D FAPbI?-based Perovskite

Table 9. Major Players of Doped FAPbI? Perovskite

Table 10. Global Formamidinium Lead Iodide Sales by Composition Route (2021-2026) & (Kg)

Table 11. Global Formamidinium Lead Iodide Sales Market Share by Composition Route (2021-2026)

Table 12. Global Formamidinium Lead Iodide Revenue by Composition Route (2021-2026) & (\$ million)

Table 13. Global Formamidinium Lead Iodide Revenue Market Share by Composition Route (2021-2026)

Table 14. Global Formamidinium Lead Iodide Sale Price by Composition Route (2021-2026) & (US\$/Kg)

Table 15. Major Players of One-step Solution Deposition

Table 16. Major Players of Two-step Sequential Deposition

Table 17. Major Players of Antisolvent-assisted Spin Coating

Table 18. Major Players of Blade Coating / Slot-die Coating

Table 19. Major Players of Vapor Deposition

Table 20. Major Players of Hybrid Vapor?Solution Process

Table 21. Major Players of Ambient / Green-solvent Process

Table 22. Global Formamidinium Lead Iodide Sales by Deposition Process (2021-2026) & (Kg)

Table 23. Global Formamidinium Lead Iodide Sales Market Share by Deposition Process (2021-2026)

Table 24. Global Formamidinium Lead Iodide Revenue by Deposition Process (2021-2026) & (\$ million)

Table 25. Global Formamidinium Lead Iodide Revenue Market Share by Deposition

Process (2021-2026)

Table 26. Global Formamidinium Lead Iodide Sale Price by Deposition Process (2021-2026) & (US\$/Kg)

Table 27. Major Players of α -phase FAPbI₃?

Table 28. Major Players of β -phase FAPbI₃?

Table 29. Major Players of Phase-stabilized FAPbI₃?

Table 30. Major Players of Cs-stabilized FAPbI₃?

Table 31. Major Players of MA-assisted FAPbI₃?

Table 32. Major Players of 2D-capped FAPbI₃?

Table 33. Global Formamidinium Lead Iodide Sales by Phase and Stability Strategy (2021-2026) & (Kg)

Table 34. Global Formamidinium Lead Iodide Sales Market Share by Phase and Stability Strategy (2021-2026)

Table 35. Global Formamidinium Lead Iodide Revenue by Phase and Stability Strategy (2021-2026) & (\$ million)

Table 36. Global Formamidinium Lead Iodide Revenue Market Share by Phase and Stability Strategy (2021-2026)

Table 37. Global Formamidinium Lead Iodide Sale Price by Phase and Stability Strategy (2021-2026) & (US\$/Kg)

Table 38. Global Formamidinium Lead Iodide Sale by Application (2021-2026) & (Kg)

Table 39. Global Formamidinium Lead Iodide Sale Market Share by Application (2021-2026)

Table 40. Global Formamidinium Lead Iodide Revenue by Application (2021-2026) & (\$ million)

Table 41. Global Formamidinium Lead Iodide Revenue Market Share by Application (2021-2026)

Table 42. Global Formamidinium Lead Iodide Sale Price by Application (2021-2026) & (US\$/Kg)

Table 43. Global Formamidinium Lead Iodide Sales by Company (2021-2026) & (Kg)

Table 44. Global Formamidinium Lead Iodide Sales Market Share by Company (2021-2026)

Table 45. Global Formamidinium Lead Iodide Revenue by Company (2021-2026) & (\$ millions)

Table 46. Global Formamidinium Lead Iodide Revenue Market Share by Company (2021-2026)

Table 47. Global Formamidinium Lead Iodide Sale Price by Company (2021-2026) & (US\$/Kg)

Table 48. Key Manufacturers Formamidinium Lead Iodide Producing Area Distribution and Sales Area

Table 49. Players Formamidinium Lead Iodide Products Offered
Table 50. Formamidinium Lead Iodide Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
Table 51. New Products and Potential Entrants
Table 52. Market M&A Activity & Strategy
Table 53. Global Formamidinium Lead Iodide Sales by Geographic Region (2021-2026) & (Kg)
Table 54. Global Formamidinium Lead Iodide Sales Market Share Geographic Region (2021-2026)
Table 55. Global Formamidinium Lead Iodide Revenue by Geographic Region (2021-2026) & (\$ millions)
Table 56. Global Formamidinium Lead Iodide Revenue Market Share by Geographic Region (2021-2026)
Table 57. Global Formamidinium Lead Iodide Sales by Country/Region (2021-2026) & (Kg)
Table 58. Global Formamidinium Lead Iodide Sales Market Share by Country/Region (2021-2026)
Table 59. Global Formamidinium Lead Iodide Revenue by Country/Region (2021-2026) & (\$ millions)
Table 60. Global Formamidinium Lead Iodide Revenue Market Share by Country/Region (2021-2026)
Table 61. Americas Formamidinium Lead Iodide Sales by Country (2021-2026) & (Kg)
Table 62. Americas Formamidinium Lead Iodide Sales Market Share by Country (2021-2026)
Table 63. Americas Formamidinium Lead Iodide Revenue by Country (2021-2026) & (\$ millions)
Table 64. Americas Formamidinium Lead Iodide Sales by Composition Route (2021-2026) & (Kg)
Table 65. Americas Formamidinium Lead Iodide Sales by Application (2021-2026) & (Kg)
Table 66. APAC Formamidinium Lead Iodide Sales by Region (2021-2026) & (Kg)
Table 67. APAC Formamidinium Lead Iodide Sales Market Share by Region (2021-2026)
Table 68. APAC Formamidinium Lead Iodide Revenue by Region (2021-2026) & (\$ millions)
Table 69. APAC Formamidinium Lead Iodide Sales by Composition Route (2021-2026) & (Kg)
Table 70. APAC Formamidinium Lead Iodide Sales by Application (2021-2026) & (Kg)
Table 71. Europe Formamidinium Lead Iodide Sales by Country (2021-2026) & (Kg)

Table 72. Europe Formamidinium Lead Iodide Revenue by Country (2021-2026) & (\$ millions)
Table 73. Europe Formamidinium Lead Iodide Sales by Composition Route (2021-2026) & (Kg)
Table 74. Europe Formamidinium Lead Iodide Sales by Application (2021-2026) & (Kg)
Table 75. Middle East & Africa Formamidinium Lead Iodide Sales by Country (2021-2026) & (Kg)
Table 76. Middle East & Africa Formamidinium Lead Iodide Revenue Market Share by Country (2021-2026)
Table 77. Middle East & Africa Formamidinium Lead Iodide Sales by Composition Route (2021-2026) & (Kg)
Table 78. Middle East & Africa Formamidinium Lead Iodide Sales by Application (2021-2026) & (Kg)
Table 79. Key Market Drivers & Growth Opportunities of Formamidinium Lead Iodide
Table 80. Key Market Challenges & Risks of Formamidinium Lead Iodide
Table 81. Key Industry Trends of Formamidinium Lead Iodide
Table 82. Formamidinium Lead Iodide Raw Material
Table 83. Key Suppliers of Raw Materials
Table 84. Formamidinium Lead Iodide Distributors List
Table 85. Formamidinium Lead Iodide Customer List
Table 86. Global Formamidinium Lead Iodide Sales Forecast by Region (2027-2032) & (Kg)
Table 87. Global Formamidinium Lead Iodide Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 88. Americas Formamidinium Lead Iodide Sales Forecast by Country (2027-2032) & (Kg)
Table 89. Americas Formamidinium Lead Iodide Annual Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 90. APAC Formamidinium Lead Iodide Sales Forecast by Region (2027-2032) & (Kg)
Table 91. APAC Formamidinium Lead Iodide Annual Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 92. Europe Formamidinium Lead Iodide Sales Forecast by Country (2027-2032) & (Kg)
Table 93. Europe Formamidinium Lead Iodide Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 94. Middle East & Africa Formamidinium Lead Iodide Sales Forecast by Country (2027-2032) & (Kg)
Table 95. Middle East & Africa Formamidinium Lead Iodide Revenue Forecast by

Country (2027-2032) & (\$ millions)

Table 96. Global Formamidinium Lead Iodide Sales Forecast by Composition Route (2027-2032) & (Kg)

Table 97. Global Formamidinium Lead Iodide Revenue Forecast by Composition Route (2027-2032) & (\$ millions)

Table 98. Global Formamidinium Lead Iodide Sales Forecast by Application (2027-2032) & (Kg)

Table 99. Global Formamidinium Lead Iodide Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 100. Ossila Ltd. Basic Information, Formamidinium Lead Iodide Manufacturing Base, Sales Area and Its Competitors

Table 101. Ossila Ltd. Formamidinium Lead Iodide Product Portfolios and Specifications

Table 102. Ossila Ltd. Formamidinium Lead Iodide Sales (Kg), Revenue (\$ Million), Price (US\$/Kg) and Gross Margin (2021-2026)

Table 103. Ossila Ltd. Main Business

Table 104. Ossila Ltd. Latest Developments

Table 105. Borun Chemical Basic Information, Formamidinium Lead Iodide Manufacturing Base, Sales Area and Its Competitors

Table 106. Borun Chemical Formamidinium Lead Iodide Product Portfolios and Specifications

Table 107. Borun Chemical Formamidinium Lead Iodide Sales (Kg), Revenue (\$ Million), Price (US\$/Kg) and Gross Margin (2021-2026)

Table 108. Borun Chemical Main Business

Table 109. Borun Chemical Latest Developments

Table 110. Dyenamo AB Basic Information, Formamidinium Lead Iodide Manufacturing Base, Sales Area and Its Competitors

Table 111. Dyenamo AB Formamidinium Lead Iodide Product Portfolios and Specifications

Table 112. Dyenamo AB Formamidinium Lead Iodide Sales (Kg), Revenue (\$ Million), Price (US\$/Kg) and Gross Margin (2021-2026)

Table 113. Dyenamo AB Main Business

Table 114. Dyenamo AB Latest Developments

Table 115. Greatcell Solar Materials Basic Information, Formamidinium Lead Iodide Manufacturing Base, Sales Area and Its Competitors

Table 116. Greatcell Solar Materials Formamidinium Lead Iodide Product Portfolios and Specifications

Table 117. Greatcell Solar Materials Formamidinium Lead Iodide Sales (Kg), Revenue (\$ Million), Price (US\$/Kg) and Gross Margin (2021-2026)

Table 118. Greatcell Solar Materials Main Business

Table 119. Greatcell Solar Materials Latest Developments
Table 120. Noctiluca Basic Information, Formamidinium Lead Iodide Manufacturing Base, Sales Area and Its Competitors
Table 121. Noctiluca Formamidinium Lead Iodide Product Portfolios and Specifications
Table 122. Noctiluca Formamidinium Lead Iodide Sales (Kg), Revenue (\$ Million), Price (US\$/Kg) and Gross Margin (2021-2026)
Table 123. Noctiluca Main Business
Table 124. Noctiluca Latest Developments
Table 125. Merck Basic Information, Formamidinium Lead Iodide Manufacturing Base, Sales Area and Its Competitors
Table 126. Merck Formamidinium Lead Iodide Product Portfolios and Specifications
Table 127. Merck Formamidinium Lead Iodide Sales (Kg), Revenue (\$ Million), Price (US\$/Kg) and Gross Margin (2021-2026)
Table 128. Merck Main Business
Table 129. Merck Latest Developments
Table 130. TCI Chemicals Basic Information, Formamidinium Lead Iodide Manufacturing Base, Sales Area and Its Competitors
Table 131. TCI Chemicals Formamidinium Lead Iodide Product Portfolios and Specifications
Table 132. TCI Chemicals Formamidinium Lead Iodide Sales (Kg), Revenue (\$ Million), Price (US\$/Kg) and Gross Margin (2021-2026)
Table 133. TCI Chemicals Main Business
Table 134. TCI Chemicals Latest Developments
Table 135. Xi'an Polymer Light Technology Basic Information, Formamidinium Lead Iodide Manufacturing Base, Sales Area and Its Competitors
Table 136. Xi'an Polymer Light Technology Formamidinium Lead Iodide Product Portfolios and Specifications
Table 137. Xi'an Polymer Light Technology Formamidinium Lead Iodide Sales (Kg), Revenue (\$ Million), Price (US\$/Kg) and Gross Margin (2021-2026)
Table 138. Xi'an Polymer Light Technology Main Business
Table 139. Xi'an Polymer Light Technology Latest Developments
Table 140. Avantama AG Basic Information, Formamidinium Lead Iodide Manufacturing Base, Sales Area and Its Competitors
Table 141. Avantama AG Formamidinium Lead Iodide Product Portfolios and Specifications
Table 142. Avantama AG Formamidinium Lead Iodide Sales (Kg), Revenue (\$ Million), Price (US\$/Kg) and Gross Margin (2021-2026)
Table 143. Avantama AG Main Business
Table 144. Avantama AG Latest Developments

Table 145. Solaronix SA Basic Information, Formamidinium Lead Iodide Manufacturing Base, Sales Area and Its Competitors

Table 146. Solaronix SA Formamidinium Lead Iodide Product Portfolios and Specifications

Table 147. Solaronix SA Formamidinium Lead Iodide Sales (Kg), Revenue (\$ Million), Price (US\$/Kg) and Gross Margin (2021-2026)

Table 148. Solaronix SA Main Business

Table 149. Solaronix SA Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Formamidinium Lead Iodide
- Figure 2. Formamidinium Lead Iodide Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Formamidinium Lead Iodide Sales Growth Rate 2021-2032 (Kg)
- Figure 7. Global Formamidinium Lead Iodide Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Formamidinium Lead Iodide Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Formamidinium Lead Iodide Sales Market Share by Country/Region (2025)
- Figure 10. Formamidinium Lead Iodide Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Pure FAPbI₃
- Figure 12. Product Picture of FA-rich Mixed-cation Perovskite
- Figure 13. Product Picture of FA/Cs Lead Iodide Perovskite
- Figure 14. Product Picture of FA/MA Lead Iodide Perovskite
- Figure 15. Product Picture of FA-based Mixed-halide Perovskite
- Figure 16. Product Picture of 2D/3D FAPbI₃-based Perovskite
- Figure 17. Product Picture of Doped FAPbI₃ Perovskite
- Figure 18. Global Formamidinium Lead Iodide Sales Market Share by Composition Route in 2026
- Figure 19. Global Formamidinium Lead Iodide Revenue Market Share by Composition Route (2021-2026)
- Figure 20. Product Picture of One-step Solution Deposition
- Figure 21. Product Picture of Two-step Sequential Deposition
- Figure 22. Product Picture of Antisolvent-assisted Spin Coating
- Figure 23. Product Picture of Blade Coating / Slot-die Coating
- Figure 24. Product Picture of Vapor Deposition
- Figure 25. Product Picture of Hybrid Vapor/Solution Process
- Figure 26. Product Picture of Ambient / Green-solvent Process
- Figure 27. Global Formamidinium Lead Iodide Sales Market Share by Deposition Process in 2026
- Figure 28. Global Formamidinium Lead Iodide Revenue Market Share by Deposition Process (2021-2026)

Figure 29. Product Picture of γ -phase FAPbI₃

Figure 30. Product Picture of γ -phase FAPbI₃

Figure 31. Product Picture of Phase-stabilized FAPbI₃

Figure 32. Product Picture of Cs-stabilized FAPbI₃

Figure 33. Product Picture of MA-assisted FAPbI₃

Figure 34. Product Picture of 2D-capped FAPbI₃

Figure 35. Global Formamidinium Lead Iodide Sales Market Share by Phase and Stability Strategy in 2026

Figure 36. Global Formamidinium Lead Iodide Revenue Market Share by Phase and Stability Strategy (2021-2026)

Figure 37. Formamidinium Lead Iodide Consumed in Single-junction Perovskite Solar Cells

Figure 38. Global Formamidinium Lead Iodide Market: Single-junction Perovskite Solar Cells (2021-2026) & (Kg)

Figure 39. Formamidinium Lead Iodide Consumed in Perovskite/Silicon Tandem Solar Cells

Figure 40. Global Formamidinium Lead Iodide Market: Perovskite/Silicon Tandem Solar Cells (2021-2026) & (Kg)

Figure 41. Formamidinium Lead Iodide Consumed in All-perovskite Tandem Solar Cells

Figure 42. Global Formamidinium Lead Iodide Market: All-perovskite Tandem Solar Cells (2021-2026) & (Kg)

Figure 43. Formamidinium Lead Iodide Consumed in Photodetectors

Figure 44. Global Formamidinium Lead Iodide Market: Photodetectors (2021-2026) & (Kg)

Figure 45. Formamidinium Lead Iodide Consumed in X-ray / Radiation Detectors

Figure 46. Global Formamidinium Lead Iodide Market: X-ray / Radiation Detectors (2021-2026) & (Kg)

Figure 47. Formamidinium Lead Iodide Consumed in LEDs and Light-emitting Devices

Figure 48. Global Formamidinium Lead Iodide Market: LEDs and Light-emitting Devices (2021-2026) & (Kg)

Figure 49. Global Formamidinium Lead Iodide Sales Market Share by Application (2025)

Figure 50. Global Formamidinium Lead Iodide Revenue Market Share by Application in 2025

Figure 51. Formamidinium Lead Iodide Sales by Company in 2025 (Kg)

Figure 52. Global Formamidinium Lead Iodide Sales Market Share by Company in 2025

Figure 53. Formamidinium Lead Iodide Revenue by Company in 2025 (\$ millions)

Figure 54. Global Formamidinium Lead Iodide Revenue Market Share by Company in 2025

Figure 55. Global Formamidinium Lead Iodide Sales Market Share by Geographic

Region (2021-2026)

Figure 56. Global Formamidinium Lead Iodide Revenue Market Share by Geographic Region in 2025

Figure 57. Americas Formamidinium Lead Iodide Sales 2021-2026 (Kg)

Figure 58. Americas Formamidinium Lead Iodide Revenue 2021-2026 (\$ millions)

Figure 59. APAC Formamidinium Lead Iodide Sales 2021-2026 (Kg)

Figure 60. APAC Formamidinium Lead Iodide Revenue 2021-2026 (\$ millions)

Figure 61. Europe Formamidinium Lead Iodide Sales 2021-2026 (Kg)

Figure 62. Europe Formamidinium Lead Iodide Revenue 2021-2026 (\$ millions)

Figure 63. Middle East & Africa Formamidinium Lead Iodide Sales 2021-2026 (Kg)

Figure 64. Middle East & Africa Formamidinium Lead Iodide Revenue 2021-2026 (\$ millions)

Figure 65. Americas Formamidinium Lead Iodide Sales Market Share by Country in 2025

Figure 66. Americas Formamidinium Lead Iodide Revenue Market Share by Country (2021-2026)

Figure 67. Americas Formamidinium Lead Iodide Sales Market Share by Composition Route (2021-2026)

Figure 68. Americas Formamidinium Lead Iodide Sales Market Share by Application (2021-2026)

Figure 69. United States Formamidinium Lead Iodide Revenue Growth 2021-2026 (\$ millions)

Figure 70. Canada Formamidinium Lead Iodide Revenue Growth 2021-2026 (\$ millions)

Figure 71. Mexico Formamidinium Lead Iodide Revenue Growth 2021-2026 (\$ millions)

Figure 72. Brazil Formamidinium Lead Iodide Revenue Growth 2021-2026 (\$ millions)

Figure 73. APAC Formamidinium Lead Iodide Sales Market Share by Region in 2025

Figure 74. APAC Formamidinium Lead Iodide Revenue Market Share by Region (2021-2026)

Figure 75. APAC Formamidinium Lead Iodide Sales Market Share by Composition Route (2021-2026)

Figure 76. APAC Formamidinium Lead Iodide Sales Market Share by Application (2021-2026)

Figure 77. China Formamidinium Lead Iodide Revenue Growth 2021-2026 (\$ millions)

Figure 78. Japan Formamidinium Lead Iodide Revenue Growth 2021-2026 (\$ millions)

Figure 79. South Korea Formamidinium Lead Iodide Revenue Growth 2021-2026 (\$ millions)

Figure 80. Southeast Asia Formamidinium Lead Iodide Revenue Growth 2021-2026 (\$ millions)

Figure 81. India Formamidinium Lead Iodide Revenue Growth 2021-2026 (\$ millions)

Figure 82. Australia Formamidinium Lead Iodide Revenue Growth 2021-2026 (\$ millions)

Figure 83. China Taiwan Formamidinium Lead Iodide Revenue Growth 2021-2026 (\$ millions)

Figure 84. Europe Formamidinium Lead Iodide Sales Market Share by Country in 2025

Figure 85. Europe Formamidinium Lead Iodide Revenue Market Share by Country (2021-2026)

Figure 86. Europe Formamidinium Lead Iodide Sales Market Share by Composition Route (2021-2026)

Figure 87. Europe Formamidinium Lead Iodide Sales Market Share by Application (2021-2026)

Figure 88. Germany Formamidinium Lead Iodide Revenue Growth 2021-2026 (\$ millions)

Figure 89. France Formamidinium Lead Iodide Revenue Growth 2021-2026 (\$ millions)

Figure 90. UK Formamidinium Lead Iodide Revenue Growth 2021-2026 (\$ millions)

Figure 91. Italy Formamidinium Lead Iodide Revenue Growth 2021-2026 (\$ millions)

Figure 92. Russia Formamidinium Lead Iodide Revenue Growth 2021-2026 (\$ millions)

Figure 93. Middle East & Africa Formamidinium Lead Iodide Sales Market Share by Country (2021-2026)

Figure 94. Middle East & Africa Formamidinium Lead Iodide Sales Market Share by Composition Route (2021-2026)

Figure 95. Middle East & Africa Formamidinium Lead Iodide Sales Market Share by Application (2021-2026)

Figure 96. Egypt Formamidinium Lead Iodide Revenue Growth 2021-2026 (\$ millions)

Figure 97. South Africa Formamidinium Lead Iodide Revenue Growth 2021-2026 (\$ millions)

Figure 98. Israel Formamidinium Lead Iodide Revenue Growth 2021-2026 (\$ millions)

Figure 99. Turkey Formamidinium Lead Iodide Revenue Growth 2021-2026 (\$ millions)

Figure 100. GCC Countries Formamidinium Lead Iodide Revenue Growth 2021-2026 (\$ millions)

Figure 101. Manufacturing Cost Structure Analysis of Formamidinium Lead Iodide in 2026

Figure 102. Manufacturing Process Analysis of Formamidinium Lead Iodide

Figure 103. Industry Chain Structure of Formamidinium Lead Iodide

Figure 104. Channels of Distribution

Figure 105. Global Formamidinium Lead Iodide Sales Market Forecast by Region (2027-2032)

Figure 106. Global Formamidinium Lead Iodide Revenue Market Share Forecast by Region (2027-2032)

Figure 107. Global Formamidinium Lead Iodide Sales Market Share Forecast by Composition Route (2027-2032)

Figure 108. Global Formamidinium Lead Iodide Revenue Market Share Forecast by Composition Route (2027-2032)

Figure 109. Global Formamidinium Lead Iodide Sales Market Share Forecast by Application (2027-2032)

Figure 110. Global Formamidinium Lead Iodide Revenue Market Share Forecast by Application (2027-2032)

I would like to order

Product name: Global Formamidinium Lead Iodide Market Growth 2026-2032

Product link: <https://marketpublishers.com/r/G47B5ACAD7C3EN.html>

Price: US\$ 3,660.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G47B5ACAD7C3EN.html>