

Global Formamidine Iodine-based Perovskite Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Formamidine Iodine-based Perovskite market size was valued at US\$ 65.5 million in 2024 and is forecast to a readjusted size of USD 113 million by 2031 with a CAGR of 8.1% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

Formamidinium iodide perovskite (FAPbI₃) is a perovskite-type organic-inorganic hybrid semiconductor material. Formamidinium iodide perovskite belongs to the ABX₃ type perovskite structure, with FA⁺ occupying the A position, Pb²⁺ occupying the B position, and I⁻ occupying the X position. Under ideal conditions, a cubic or tetragonal phase structure is formed, but in actual preparation, it is easy to form a non-photoactive δ phase (yellow phase) or γ phase. The photoactive black phase (β phase) FAPbI₃ easily transforms to the δ phase at room temperature, and its structure needs to be stabilized by component regulation (such as adding Cs⁺, MA⁺) or interface engineering (such as two-dimensional perovskite template). By introducing additives such as pentamidine (PAD), the (001) crystal plane energy can be reduced, promoting the preferential growth of β phase FAPbI₃ along the vertical substrate direction, and significantly improving the crystallization quality and optoelectronic performance. As a candidate material for high-efficiency single-junction solar cells, formamidinium iodide-based perovskite can also be used in stacked cells (such as coupling with silicon-based cells) and flexible photovoltaic devices, promoting the development of photovoltaic technology towards high efficiency and low cost.

This report is a detailed and comprehensive analysis for global Formamidine Iodine-based Perovskite market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type 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 Formamidine Iodine-based Perovskite market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2020-2031

Global Formamidine Iodine-based Perovskite market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2020-2031

Global Formamidine Iodine-based Perovskite market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2020-2031

Global Formamidine Iodine-based Perovskite market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/kg), 2020-2025

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 Formamidine Iodine-based Perovskite
- 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 Formamidine Iodine-based Perovskite 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 Stanford Advanced Materials, Oxford PV, Saule Technologies, Toshiba, Ossila, Halocell Energy, Hangzhou Xianna Optoelectronics, GCL Group, Wandu Solar, Shanghai Jizhi Biochemical Technology, etc.

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

Market Segmentation

Formamidine Iodine-based Perovskite market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, 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 Type

Single-sided Polishing

Double-sided Polishing

Market segment by Application

Photovoltaic Energy

Photoelectric Detection

Light-emitting Devices

Lasers

Others

Major players covered

Stanford Advanced Materials

Oxford PV

Saule Technologies

Toshiba

Ossila

Halocell Energy

Hangzhou Xianna Optoelectronics

GCL Group

Wandu Solar

Shanghai Jizhi Biochemical Technology

Xi'an Yuri Solar Technology

Ningbo Borun New Materials Technology

Shanghai Yaji Biotechnology

Xi'an Qiyue Biotechnology

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 Formamidine Iodine-based Perovskite product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Formamidine Iodine-based Perovskite, with price, sales quantity, revenue, and global market share of Formamidine Iodine-based Perovskite from 2020 to 2025.

Chapter 3, the Formamidine Iodine-based Perovskite competitive situation, sales

quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Formamidine Iodine-based Perovskite breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

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 2020 to 2025. and Formamidine Iodine-based Perovskite market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Formamidine Iodine-based Perovskite.

Chapter 14 and 15, to describe Formamidine Iodine-based Perovskite sales channel, distributors, customers, research findings and conclusion.

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