

Global Phenethylammonium 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 Phenethylammonium Iodide market size was valued at US\$ 7.72 million in 2025 and is forecast to a readjusted size of US\$ 34.94 million by 2032 with a CAGR of 23.4% during review period.

Phenethylammonium iodide, commonly abbreviated as PEAI, is an aromatic organic ammonium iodide salt used in metal-halide perovskite optoelectronics. It functions as a bulky organic spacer cation, surface-passivation reagent, and quasi-2D perovskite precursor. In perovskite solar cells, LEDs, photodetectors, and related devices, PEAI is used to modify interfaces, reduce surface defects, form 2D/3D heterostructures, improve moisture tolerance, and tune crystallization behavior. Greatcell Solar Materials explicitly positions PEAI as a precursor for perovskite-based devices such as perovskite solar cells.

Based on our research, phenethylamine hydroiodide should be positioned in the perovskite-materials context as Phenethylammonium Iodide / PEAI, not as a generic phenethylamine salt or pharmaceutical intermediate. TCI lists the product as 2-Phenylethylamine Hydroiodide, CAS 151059-43-7, with synonyms including Phenethylammonium Iodide and PEAI. Greatcell Solar Materials also positions PEAI as a precursor for perovskite-based devices such as perovskite solar cells.

From an application perspective, PEAI is valuable not as a commodity chemical but as a bulky organic ammonium cation, 2D/quasi-2D perovskite spacer, and 3D perovskite surface passivation reagent. In perovskite solar cells, PEAI is commonly used in surface treatment and interface engineering to reduce defects, suppress non-radiative

recombination, improve interface stability, and enhance device reproducibility. A study on PEAI passivation layers reported that optimized PEAI layers reduce trap-mediated charge recombination and improve light-soaking stability in non-encapsulated flexible perovskite solar cells.

From a process-development standpoint, PEAI demand will evolve with the perovskite industry from spin-coated small-area devices toward blade coating, slot-die coating, pilot lines, and module-level validation. A 2025 ACS study abstract notes that PEAI surface passivation can mitigate defects caused by rapid crystallization in solution-processed perovskite solar cells, while conventional spin-coating limits scalability; this makes blade-coated PEAI passivation layers an important scale-up topic. This means PEAI's commercial value will depend on solvent compatibility, coating uniformity, process damage control, and batch consistency, not only on chemical purity.

From a supply perspective, PEAI is a small-volume, high-purity, application-specific optoelectronic material. The relevant supplier base is composed mainly of perovskite-material specialists and high-end research reagent platforms. Greatcell Solar Materials explicitly sells PEAI as a perovskite-device precursor, while TCI offers research-grade PEAI.

From a commercialization perspective, PEAI remains mainly in the research, development, and pilot-line qualification stage, so its market size should not be extrapolated directly from total perovskite module or total perovskite-materials revenue. Future scale-up will depend on whether perovskite-cell developers keep PEAI in their process routes, how PEAI competes with 4F-PEAI, PEABr, PEACl, SAM molecules, and other interface materials, and whether suppliers can deliver kilogram-scale batches with controlled metal impurities, moisture, residual acid/halide species, solvent compatibility, dry or inert packaging, and customer-qualified batch consistency.

This report is a detailed and comprehensive analysis for global Phenethylammonium Iodide market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Purity Grade 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 Phenethylammonium Iodide market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

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

Global Phenethylammonium Iodide market size and forecasts, by Purity Grade and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Phenethylammonium Iodide market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 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 Phenethylammonium 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 Phenethylammonium 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 Borun New Material, Greatcell Solar Materials, Xi'an Polymer Light Technology Corp., Xi'an Yuri Solar, Tokyo Chemical Industry, Truck-Lite, J.W. Speaker, etc.

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

Market Segmentation

Phenethylammonium Iodide market is split by Purity Grade and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and

forecasts for consumption value by Purity Grade, 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 Purity Grade

Research Grade ?98%

Perovskite Grade ?99%

High Purity ?99.5%

Market segment by Technology Role

Surface Defect Passivator

2D Capping Layer Former

Quasi-2D Phase Spacer

Crystallization / Orientation Modifier

Hydrophobic Stability Additive

Market segment by Process Step

Precursor Additive Step

Surface Post-treatment Step

Interlayer Modification Step

Anti-solvent / Quenching Step

Market segment by Application

Perovskite Solar Cell Surface Passivation

2D / Quasi-2D Perovskite Spacer

Perovskite LED Materials

Perovskite Photodetector / Sensor Materials

Organic Synthesis / Fine Chemical Intermediate

Major players covered

Borun New Material

Greatcell Solar Materials

Xi'an Polymer Light Technology Corp.

Xi'an Yuri Solar

Tokyo Chemical Industry

Truck-Lite

J.W. Speaker

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

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

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

Chapter 4, the Phenethylammonium 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 Purity Grade and by Application, with sales market share and growth rate by Purity Grade, 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 Phenethylammonium Iodide market forecast, by regions, by Purity Grade, 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 Phenethylammonium Iodide.

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