

Global Phenethylammonium Iodide Market Growth 2026-2032

<https://marketpublishers.com/r/G99EBA611F99EN.html>

Date: October 2026

Pages: 91

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

ID: G99EBA611F99EN

Abstracts

The global Phenethylammonium Iodide market size is predicted to grow from US\$ 7.34 million in 2025 to US\$ 35.65 million in 2032; it is expected to grow at a CAGR of 24.9% from 2026 to 2032.

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.

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

This Insight Report provides a comprehensive analysis of the global Phenethylammonium 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 Phenethylammonium Iodide portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Phenethylammonium Iodide market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Phenethylammonium Iodide and breaks down the forecast by Purity Grade, 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 Phenethylammonium Iodide.

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

Segmentation by Purity Grade:

Research Grade ?98%

Perovskite Grade ?99%

High Purity ?99.5%

Segmentation by Technology Role:

Surface Defect Passivator

2D Capping Layer Former

Quasi-2D Phase Spacer

Crystallization / Orientation Modifier

Hydrophobic Stability Additive

Segmentation by Process Step:

Precursor Additive Step

Surface Post-treatment Step

Interlayer Modification Step

Anti-solvent / Quenching Step

Segmentation by Application:

Perovskite Solar Cell Surface Passivation

2D / Quasi-2D Perovskite Spacer

Perovskite LED Materials

Perovskite Photodetector / Sensor Materials

Organic Synthesis / Fine Chemical Intermediate

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.

Borun New Material

Greatcell Solar Materials

Xi'an Polymer Light Technology Corp.

Xi'an Yuri Solar

Tokyo Chemical Industry

Truck-Lite

J.W. Speaker

Key Questions Addressed in this Report

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

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

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

How do Phenethylammonium Iodide market opportunities vary by end market size?

How does Phenethylammonium Iodide break out by Purity Grade, by Application?

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