

Global Phenethylammonium Iodide Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Phenethylammonium Iodide market size is expected to reach \$ 34.94 million by 2032, rising at a market growth of 23.4% CAGR during the forecast period (2026-2032).

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.

This report studies the global Phenethylammonium Iodide production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Phenethylammonium Iodide and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Phenethylammonium Iodide that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Phenethylammonium Iodide total production and demand, 2021-2032, (Tons)

Global Phenethylammonium Iodide total production value, 2021-2032, (USD Million)
Global Phenethylammonium Iodide production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)
Global Phenethylammonium Iodide consumption by region & country, CAGR, 2021-2032 & (Tons)
U.S. VS China: Phenethylammonium Iodide domestic production, consumption, key domestic manufacturers and share
Global Phenethylammonium Iodide production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)
Global Phenethylammonium Iodide production by Purity Grade, production, value, CAGR, 2021-2032, (USD Million) & (Tons)
Global Phenethylammonium Iodide production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Phenethylammonium Iodide market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Phenethylammonium Iodide market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by manufacturer, by Purity Grade, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Phenethylammonium Iodide Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Phenethylammonium Iodide Market, Segmentation by Purity Grade:

Research Grade ≥98%

Perovskite Grade ≥99%

High Purity ≥99.5%

Global Phenethylammonium Iodide Market, Segmentation by Technology Role:

Surface Defect Passivator

2D Capping Layer Former

Quasi-2D Phase Spacer

Crystallization / Orientation Modifier

Hydrophobic Stability Additive

Global Phenethylammonium Iodide Market, Segmentation by Process Step:

Precursor Additive Step

Surface Post-treatment Step

Interlayer Modification Step

Anti-solvent / Quenching Step

Global Phenethylammonium Iodide Market, 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

Companies Profiled:

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 Answered:

1. How big is the global Phenethylammonium Iodide market?
2. What is the demand of the global Phenethylammonium Iodide market?
3. What is the year over year growth of the global Phenethylammonium Iodide market?
4. What is the production and production value of the global Phenethylammonium Iodide market?
5. Who are the key producers in the global Phenethylammonium Iodide market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Phenethylammonium Iodide Introduction
- 1.2 World Phenethylammonium Iodide Supply & Forecast
 - 1.2.1 World Phenethylammonium Iodide Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Phenethylammonium Iodide Production (2021-2032)
 - 1.2.3 World Phenethylammonium Iodide Pricing Trends (2021-2032)
- 1.3 World Phenethylammonium Iodide Production by Region (Based on Production Site)
 - 1.3.1 World Phenethylammonium Iodide Production Value by Region (2021-2032)
 - 1.3.2 World Phenethylammonium Iodide Production by Region (2021-2032)
 - 1.3.3 World Phenethylammonium Iodide Average Price by Region (2021-2032)
 - 1.3.4 North America Phenethylammonium Iodide Production (2021-2032)
 - 1.3.5 Europe Phenethylammonium Iodide Production (2021-2032)
 - 1.3.6 China Phenethylammonium Iodide Production (2021-2032)
 - 1.3.7 Japan Phenethylammonium Iodide Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Phenethylammonium Iodide Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Phenethylammonium Iodide Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Phenethylammonium Iodide Demand (2021-2032)
- 2.2 World Phenethylammonium Iodide Consumption by Region
 - 2.2.1 World Phenethylammonium Iodide Consumption by Region (2021-2026)
 - 2.2.2 World Phenethylammonium Iodide Consumption Forecast by Region (2027-2032)
- 2.3 United States Phenethylammonium Iodide Consumption (2021-2032)
- 2.4 China Phenethylammonium Iodide Consumption (2021-2032)
- 2.5 Europe Phenethylammonium Iodide Consumption (2021-2032)
- 2.6 Japan Phenethylammonium Iodide Consumption (2021-2032)
- 2.7 South Korea Phenethylammonium Iodide Consumption (2021-2032)
- 2.8 ASEAN Phenethylammonium Iodide Consumption (2021-2032)
- 2.9 India Phenethylammonium Iodide Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Phenethylammonium Iodide Production Value by Manufacturer (2021-2026)
- 3.2 World Phenethylammonium Iodide Production by Manufacturer (2021-2026)
- 3.3 World Phenethylammonium Iodide Average Price by Manufacturer (2021-2026)
- 3.4 Phenethylammonium Iodide Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Phenethylammonium Iodide Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Phenethylammonium Iodide in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Phenethylammonium Iodide in 2025
- 3.6 Phenethylammonium Iodide Market: Overall Company Footprint Analysis
 - 3.6.1 Phenethylammonium Iodide Market: Region Footprint
 - 3.6.2 Phenethylammonium Iodide Market: Company Product Type Footprint
 - 3.6.3 Phenethylammonium Iodide Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Phenethylammonium Iodide Production Value Comparison
 - 4.1.1 United States VS China: Phenethylammonium Iodide Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Phenethylammonium Iodide Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Phenethylammonium Iodide Production Comparison
 - 4.2.1 United States VS China: Phenethylammonium Iodide Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Phenethylammonium Iodide Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Phenethylammonium Iodide Consumption Comparison
 - 4.3.1 United States VS China: Phenethylammonium Iodide Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Phenethylammonium Iodide Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Phenethylammonium Iodide Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Phenethylammonium Iodide Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Phenethylammonium Iodide Production Value (2021-2026)

4.4.3 United States Based Manufacturers Phenethylammonium Iodide Production (2021-2026)

4.5 China Based Phenethylammonium Iodide Manufacturers and Market Share

4.5.1 China Based Phenethylammonium Iodide Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Phenethylammonium Iodide Production Value (2021-2026)

4.5.3 China Based Manufacturers Phenethylammonium Iodide Production (2021-2026)

4.6 Rest of World Based Phenethylammonium Iodide Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Phenethylammonium Iodide Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Phenethylammonium Iodide Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Phenethylammonium Iodide Production (2021-2026)

5 MARKET ANALYSIS BY PURITY GRADE

5.1 World Phenethylammonium Iodide Market Size Overview by Purity Grade: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Purity Grade

5.2.1 Research Grade ?98%

5.2.2 Perovskite Grade ?99%

5.2.3 High Purity ?99.5%

5.3 Market Segment by Purity Grade

5.3.1 World Phenethylammonium Iodide Production by Purity Grade (2021-2032)

5.3.2 World Phenethylammonium Iodide Production Value by Purity Grade (2021-2032)

5.3.3 World Phenethylammonium Iodide Average Price by Purity Grade (2021-2032)

6 MARKET ANALYSIS BY TECHNOLOGY ROLE

6.1 World Phenethylammonium Iodide Market Size Overview by Technology Role: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Technology Role

- 6.2.1 Surface Defect Passivator
- 6.2.2 2D Capping Layer Former
- 6.2.3 Quasi-2D Phase Spacer
- 6.2.4 Crystallization / Orientation Modifier
- 6.2.5 Hydrophobic Stability Additive

6.3 Market Segment by Technology Role

- 6.3.1 World Phenethylammonium Iodide Production by Technology Role (2021-2032)
- 6.3.2 World Phenethylammonium Iodide Production Value by Technology Role (2021-2032)
- 6.3.3 World Phenethylammonium Iodide Average Price by Technology Role (2021-2032)

7 MARKET ANALYSIS BY PROCESS STEP

7.1 World Phenethylammonium Iodide Market Size Overview by Process Step: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Process Step

- 7.2.1 Precursor Additive Step
- 7.2.2 Surface Post-treatment Step
- 7.2.3 Interlayer Modification Step
- 7.2.4 Anti-solvent / Quenching Step

7.3 Market Segment by Process Step

- 7.3.1 World Phenethylammonium Iodide Production by Process Step (2021-2032)
- 7.3.2 World Phenethylammonium Iodide Production Value by Process Step (2021-2032)
- 7.3.3 World Phenethylammonium Iodide Average Price by Process Step (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Phenethylammonium Iodide Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

- 8.2.1 Perovskite Solar Cell Surface Passivation
- 8.2.2 2D / Quasi-2D Perovskite Spacer
- 8.2.3 Perovskite LED Materials
- 8.2.4 Perovskite Photodetector / Sensor Materials
- 8.2.5 Organic Synthesis / Fine Chemical Intermediate

8.3 Market Segment by Application

- 8.3.1 World Phenethylammonium Iodide Production by Application (2021-2032)
- 8.3.2 World Phenethylammonium Iodide Production Value by Application (2021-2032)
- 8.3.3 World Phenethylammonium Iodide Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Borun New Material

- 9.1.1 Borun New Material Details
- 9.1.2 Borun New Material Major Business
- 9.1.3 Borun New Material Phenethylammonium Iodide Product and Services
- 9.1.4 Borun New Material Phenethylammonium Iodide Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.1.5 Borun New Material Recent Developments/Updates
- 9.1.6 Borun New Material Competitive Strengths & Weaknesses

9.2 Greatcell Solar Materials

- 9.2.1 Greatcell Solar Materials Details
- 9.2.2 Greatcell Solar Materials Major Business
- 9.2.3 Greatcell Solar Materials Phenethylammonium Iodide Product and Services
- 9.2.4 Greatcell Solar Materials Phenethylammonium Iodide Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.2.5 Greatcell Solar Materials Recent Developments/Updates
- 9.2.6 Greatcell Solar Materials Competitive Strengths & Weaknesses

9.3 Xi'an Polymer Light Technology Corp.

- 9.3.1 Xi'an Polymer Light Technology Corp. Details
- 9.3.2 Xi'an Polymer Light Technology Corp. Major Business
- 9.3.3 Xi'an Polymer Light Technology Corp. Phenethylammonium Iodide Product and Services
- 9.3.4 Xi'an Polymer Light Technology Corp. Phenethylammonium Iodide Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.3.5 Xi'an Polymer Light Technology Corp. Recent Developments/Updates
- 9.3.6 Xi'an Polymer Light Technology Corp. Competitive Strengths & Weaknesses

9.4 Xi'an Yuri Solar

- 9.4.1 Xi'an Yuri Solar Details
- 9.4.2 Xi'an Yuri Solar Major Business
- 9.4.3 Xi'an Yuri Solar Phenethylammonium Iodide Product and Services
- 9.4.4 Xi'an Yuri Solar Phenethylammonium Iodide Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.4.5 Xi'an Yuri Solar Recent Developments/Updates
- 9.4.6 Xi'an Yuri Solar Competitive Strengths & Weaknesses

9.5 Tokyo Chemical Industry

9.5.1 Tokyo Chemical Industry Details

9.5.2 Tokyo Chemical Industry Major Business

9.5.3 Tokyo Chemical Industry Phenethylammonium Iodide Product and Services

9.5.4 Tokyo Chemical Industry Phenethylammonium Iodide Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 Tokyo Chemical Industry Recent Developments/Updates

9.5.6 Tokyo Chemical Industry Competitive Strengths & Weaknesses

9.6 Truck-Lite

9.6.1 Truck-Lite Details

9.6.2 Truck-Lite Major Business

9.6.3 Truck-Lite Phenethylammonium Iodide Product and Services

9.6.4 Truck-Lite Phenethylammonium Iodide Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 Truck-Lite Recent Developments/Updates

9.6.6 Truck-Lite Competitive Strengths & Weaknesses

9.7 J.W. Speaker

9.7.1 J.W. Speaker Details

9.7.2 J.W. Speaker Major Business

9.7.3 J.W. Speaker Phenethylammonium Iodide Product and Services

9.7.4 J.W. Speaker Phenethylammonium Iodide Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 J.W. Speaker Recent Developments/Updates

9.7.6 J.W. Speaker Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Phenethylammonium Iodide Industry Chain

10.2 Phenethylammonium Iodide Upstream Analysis

10.2.1 Phenethylammonium Iodide Core Raw Materials

10.2.2 Main Manufacturers of Phenethylammonium Iodide Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Phenethylammonium Iodide Production Mode

10.6 Phenethylammonium Iodide Procurement Model

10.7 Phenethylammonium Iodide Industry Sales Model and Sales Channels

10.7.1 Phenethylammonium Iodide Sales Model

10.7.2 Phenethylammonium Iodide Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Phenethylammonium Iodide Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Phenethylammonium Iodide Production Value by Region (2021-2026) & (USD Million)

Table 3. World Phenethylammonium Iodide Production Value by Region (2027-2032) & (USD Million)

Table 4. World Phenethylammonium Iodide Production Value Market Share by Region (2021-2026)

Table 5. World Phenethylammonium Iodide Production Value Market Share by Region (2027-2032)

Table 6. World Phenethylammonium Iodide Production by Region (2021-2026) & (Tons)

Table 7. World Phenethylammonium Iodide Production by Region (2027-2032) & (Tons)

Table 8. World Phenethylammonium Iodide Production Market Share by Region (2021-2026)

Table 9. World Phenethylammonium Iodide Production Market Share by Region (2027-2032)

Table 10. World Phenethylammonium Iodide Average Price by Region (2021-2026) & (US\$/Ton)

Table 11. World Phenethylammonium Iodide Average Price by Region (2027-2032) & (US\$/Ton)

Table 12. Phenethylammonium Iodide Major Market Trends

Table 13. World Phenethylammonium Iodide Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Tons)

Table 14. World Phenethylammonium Iodide Consumption by Region (2021-2026) & (Tons)

Table 15. World Phenethylammonium Iodide Consumption Forecast by Region (2027-2032) & (Tons)

Table 16. World Phenethylammonium Iodide Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Phenethylammonium Iodide Producers in 2025

Table 18. World Phenethylammonium Iodide Production by Manufacturer (2021-2026) & (Tons)

Table 19. Production Market Share of Key Phenethylammonium Iodide Producers in 2025

Table 20. World Phenethylammonium Iodide Average Price by Manufacturer (2021-2026) & (US\$/Ton)

Table 21. Global Phenethylammonium Iodide Company Evaluation Quadrant

Table 22. World Phenethylammonium Iodide Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Phenethylammonium Iodide Production Site of Key Manufacturer

Table 24. Phenethylammonium Iodide Market: Company Product Type Footprint

Table 25. Phenethylammonium Iodide Market: Company Product Application Footprint

Table 26. Phenethylammonium Iodide Competitive Factors

Table 27. Phenethylammonium Iodide New Entrant and Capacity Expansion Plans

Table 28. Phenethylammonium Iodide Mergers & Acquisitions Activity

Table 29. United States VS China Phenethylammonium Iodide Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Phenethylammonium Iodide Production Comparison, (2021 & 2025 & 2032) & (Tons)

Table 31. United States VS China Phenethylammonium Iodide Consumption Comparison, (2021 & 2025 & 2032) & (Tons)

Table 32. United States Based Phenethylammonium Iodide Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Phenethylammonium Iodide Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Phenethylammonium Iodide Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Phenethylammonium Iodide Production (2021-2026) & (Tons)

Table 36. United States Based Manufacturers Phenethylammonium Iodide Production Market Share (2021-2026)

Table 37. China Based Phenethylammonium Iodide Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Phenethylammonium Iodide Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Phenethylammonium Iodide Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Phenethylammonium Iodide Production, (2021-2026) & (Tons)

Table 41. China Based Manufacturers Phenethylammonium Iodide Production Market Share (2021-2026)

Table 42. Rest of World Based Phenethylammonium Iodide Manufacturers,

Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Phenethylammonium Iodide Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Phenethylammonium Iodide Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Phenethylammonium Iodide Production, (2021-2026) & (Tons)

Table 46. Rest of World Based Manufacturers Phenethylammonium Iodide Production Market Share (2021-2026)

Table 47. World Phenethylammonium Iodide Production Value by Purity Grade, (USD Million), 2021 & 2025 & 2032

Table 48. World Phenethylammonium Iodide Production by Purity Grade (2021-2026) & (Tons)

Table 49. World Phenethylammonium Iodide Production by Purity Grade (2027-2032) & (Tons)

Table 50. World Phenethylammonium Iodide Production Value by Purity Grade (2021-2026) & (USD Million)

Table 51. World Phenethylammonium Iodide Production Value by Purity Grade (2027-2032) & (USD Million)

Table 52. World Phenethylammonium Iodide Average Price by Purity Grade (2021-2026) & (US\$/Ton)

Table 53. World Phenethylammonium Iodide Average Price by Purity Grade (2027-2032) & (US\$/Ton)

Table 54. World Phenethylammonium Iodide Production Value by Technology Role, (USD Million), 2021 & 2025 & 2032

Table 55. World Phenethylammonium Iodide Production by Technology Role (2021-2026) & (Tons)

Table 56. World Phenethylammonium Iodide Production by Technology Role (2027-2032) & (Tons)

Table 57. World Phenethylammonium Iodide Production Value by Technology Role (2021-2026) & (USD Million)

Table 58. World Phenethylammonium Iodide Production Value by Technology Role (2027-2032) & (USD Million)

Table 59. World Phenethylammonium Iodide Average Price by Technology Role (2021-2026) & (US\$/Ton)

Table 60. World Phenethylammonium Iodide Average Price by Technology Role (2027-2032) & (US\$/Ton)

Table 61. World Phenethylammonium Iodide Production Value by Process Step, (USD Million), 2021 & 2025 & 2032

Table 62. World Phenethylammonium Iodide Production by Process Step (2021-2026) & (Tons)

Table 63. World Phenethylammonium Iodide Production by Process Step (2027-2032) & (Tons)

Table 64. World Phenethylammonium Iodide Production Value by Process Step (2021-2026) & (USD Million)

Table 65. World Phenethylammonium Iodide Production Value by Process Step (2027-2032) & (USD Million)

Table 66. World Phenethylammonium Iodide Average Price by Process Step (2021-2026) & (US\$/Ton)

Table 67. World Phenethylammonium Iodide Average Price by Process Step (2027-2032) & (US\$/Ton)

Table 68. World Phenethylammonium Iodide Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Phenethylammonium Iodide Production by Application (2021-2026) & (Tons)

Table 70. World Phenethylammonium Iodide Production by Application (2027-2032) & (Tons)

Table 71. World Phenethylammonium Iodide Production Value by Application (2021-2026) & (USD Million)

Table 72. World Phenethylammonium Iodide Production Value by Application (2027-2032) & (USD Million)

Table 73. World Phenethylammonium Iodide Average Price by Application (2021-2026) & (US\$/Ton)

Table 74. World Phenethylammonium Iodide Average Price by Application (2027-2032) & (US\$/Ton)

Table 75. Borun New Material Basic Information, Manufacturing Base and Competitors

Table 76. Borun New Material Major Business

Table 77. Borun New Material Phenethylammonium Iodide Product and Services

Table 78. Borun New Material Phenethylammonium Iodide Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Borun New Material Recent Developments/Updates

Table 80. Borun New Material Competitive Strengths & Weaknesses

Table 81. Greatcell Solar Materials Basic Information, Manufacturing Base and Competitors

Table 82. Greatcell Solar Materials Major Business

Table 83. Greatcell Solar Materials Phenethylammonium Iodide Product and Services

Table 84. Greatcell Solar Materials Phenethylammonium Iodide Production (Tons),

Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Greatcell Solar Materials Recent Developments/Updates

Table 86. Greatcell Solar Materials Competitive Strengths & Weaknesses

Table 87. Xi'an Polymer Light Technology Corp. Basic Information, Manufacturing Base and Competitors

Table 88. Xi'an Polymer Light Technology Corp. Major Business

Table 89. Xi'an Polymer Light Technology Corp. Phenethylammonium Iodide Product and Services

Table 90. Xi'an Polymer Light Technology Corp. Phenethylammonium Iodide Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Xi'an Polymer Light Technology Corp. Recent Developments/Updates

Table 92. Xi'an Polymer Light Technology Corp. Competitive Strengths & Weaknesses

Table 93. Xi'an Yuri Solar Basic Information, Manufacturing Base and Competitors

Table 94. Xi'an Yuri Solar Major Business

Table 95. Xi'an Yuri Solar Phenethylammonium Iodide Product and Services

Table 96. Xi'an Yuri Solar Phenethylammonium Iodide Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Xi'an Yuri Solar Recent Developments/Updates

Table 98. Xi'an Yuri Solar Competitive Strengths & Weaknesses

Table 99. Tokyo Chemical Industry Basic Information, Manufacturing Base and Competitors

Table 100. Tokyo Chemical Industry Major Business

Table 101. Tokyo Chemical Industry Phenethylammonium Iodide Product and Services

Table 102. Tokyo Chemical Industry Phenethylammonium Iodide Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Tokyo Chemical Industry Recent Developments/Updates

Table 104. Tokyo Chemical Industry Competitive Strengths & Weaknesses

Table 105. Truck-Lite Basic Information, Manufacturing Base and Competitors

Table 106. Truck-Lite Major Business

Table 107. Truck-Lite Phenethylammonium Iodide Product and Services

Table 108. Truck-Lite Phenethylammonium Iodide Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Truck-Lite Recent Developments/Updates

Table 110. Truck-Lite Competitive Strengths & Weaknesses

Table 111. J.W. Speaker Basic Information, Manufacturing Base and Competitors

Table 112. J.W. Speaker Major Business

Table 113. J.W. Speaker Phenethylammonium Iodide Product and Services

Table 114. J.W. Speaker Phenethylammonium Iodide Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. J.W. Speaker Recent Developments/Updates

Table 116. J.W. Speaker Competitive Strengths & Weaknesses

Table 117. Global Key Players of Phenethylammonium Iodide Upstream (Raw Materials)

Table 118. Global Phenethylammonium Iodide Typical Customers

Table 119. Phenethylammonium Iodide Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Phenethylammonium Iodide Picture

Figure 2. World Phenethylammonium Iodide Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Phenethylammonium Iodide Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Phenethylammonium Iodide Production (2021-2032) & (Tons)

Figure 5. World Phenethylammonium Iodide Average Price (2021-2032) & (US\$/Ton)

Figure 6. World Phenethylammonium Iodide Production Value Market Share by Region (2021-2032)

Figure 7. World Phenethylammonium Iodide Production Market Share by Region (2021-2032)

Figure 8. North America Phenethylammonium Iodide Production (2021-2032) & (Tons)

Figure 9. Europe Phenethylammonium Iodide Production (2021-2032) & (Tons)

Figure 10. China Phenethylammonium Iodide Production (2021-2032) & (Tons)

Figure 11. Japan Phenethylammonium Iodide Production (2021-2032) & (Tons)

Figure 12. Phenethylammonium Iodide Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Phenethylammonium Iodide Consumption (2021-2032) & (Tons)

Figure 15. World Phenethylammonium Iodide Consumption Market Share by Region (2021-2032)

Figure 16. United States Phenethylammonium Iodide Consumption (2021-2032) & (Tons)

Figure 17. China Phenethylammonium Iodide Consumption (2021-2032) & (Tons)

Figure 18. Europe Phenethylammonium Iodide Consumption (2021-2032) & (Tons)

Figure 19. Japan Phenethylammonium Iodide Consumption (2021-2032) & (Tons)

Figure 20. South Korea Phenethylammonium Iodide Consumption (2021-2032) & (Tons)

Figure 21. ASEAN Phenethylammonium Iodide Consumption (2021-2032) & (Tons)

Figure 22. India Phenethylammonium Iodide Consumption (2021-2032) & (Tons)

Figure 23. Producer Shipments of Phenethylammonium Iodide by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Phenethylammonium Iodide Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Phenethylammonium Iodide Markets in 2025

Figure 26. United States VS China: Phenethylammonium Iodide Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Phenethylammonium Iodide Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Phenethylammonium Iodide Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Phenethylammonium Iodide Production Market Share 2025

Figure 30. China Based Manufacturers Phenethylammonium Iodide Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Phenethylammonium Iodide Production Market Share 2025

Figure 32. World Phenethylammonium Iodide Production Value by Purity Grade, (USD Million), 2021 & 2025 & 2032

Figure 33. World Phenethylammonium Iodide Production Value Market Share by Purity Grade in 2025

Figure 34. Research Grade ≥98%

Figure 35. Perovskite Grade ≥99%

Figure 36. High Purity ≥99.5%

Figure 37. World Phenethylammonium Iodide Production Market Share by Purity Grade (2021-2032)

Figure 38. World Phenethylammonium Iodide Production Value Market Share by Purity Grade (2021-2032)

Figure 39. World Phenethylammonium Iodide Average Price by Purity Grade (2021-2032) & (US\$/Ton)

Figure 40. World Phenethylammonium Iodide Production Value by Technology Role, (USD Million), 2021 & 2025 & 2032

Figure 41. World Phenethylammonium Iodide Production Value Market Share by Technology Role in 2025

Figure 42. Surface Defect Passivator

Figure 43. 2D Capping Layer Former

Figure 44. Quasi-2D Phase Spacer

Figure 45. Crystallization / Orientation Modifier

Figure 46. Hydrophobic Stability Additive

Figure 47. World Phenethylammonium Iodide Production Market Share by Technology Role (2021-2032)

Figure 48. World Phenethylammonium Iodide Production Value Market Share by Technology Role (2021-2032)

Figure 49. World Phenethylammonium Iodide Average Price by Technology Role

(2021-2032) & (US\$/Ton)

Figure 50. World Phenethylammonium Iodide Production Value by Process Step, (USD Million), 2021 & 2025 & 2032

Figure 51. World Phenethylammonium Iodide Production Value Market Share by Process Step in 2025

Figure 52. Precursor Additive Step

Figure 53. Surface Post-treatment Step

Figure 54. Interlayer Modification Step

Figure 55. Anti-solvent / Quenching Step

Figure 56. World Phenethylammonium Iodide Production Market Share by Process Step (2021-2032)

Figure 57. World Phenethylammonium Iodide Production Value Market Share by Process Step (2021-2032)

Figure 58. World Phenethylammonium Iodide Average Price by Process Step (2021-2032) & (US\$/Ton)

Figure 59. World Phenethylammonium Iodide Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 60. World Phenethylammonium Iodide Production Value Market Share by Application in 2025

Figure 61. Perovskite Solar Cell Surface Passivation

Figure 62. 2D / Quasi-2D Perovskite Spacer

Figure 63. Perovskite LED Materials

Figure 64. Perovskite Photodetector / Sensor Materials

Figure 65. Organic Synthesis / Fine Chemical Intermediate

Figure 66. World Phenethylammonium Iodide Production Market Share by Application (2021-2032)

Figure 67. World Phenethylammonium Iodide Production Value Market Share by Application (2021-2032)

Figure 68. World Phenethylammonium Iodide Average Price by Application (2021-2032) & (US\$/Ton)

Figure 69. Phenethylammonium Iodide Industry Chain

Figure 70. Phenethylammonium Iodide Procurement Model

Figure 71. Phenethylammonium Iodide Sales Model

Figure 72. Phenethylammonium Iodide Sales Channels, Direct Sales, and Distribution

Figure 73. Methodology

Figure 74. Research Process and Data Source

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