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Global Einsteinium-254 Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Einsteinium-254 market size is expected to reach $ million by 2032, rising at a market growth of %CAGR during the forecast period (2026-2032).

In 2025, global production of Einsteinium-254 was approximately 29 grams, with an average global market price of around $820,000 per gram. The total global production capacity for Einsteinium-254 in 2025 was approximately 65 grams. The average gross profit margin for the industry reached 82%. Einsteinium-254 (Es-254) is an artificially produced transuranium radioactive isotope of the element einsteinium, with an atomic number of 99 and a mass number of 254. It has relatively short half-lives depending on its nuclear state, with Es-254m having a half-life of approximately 39 hours and the ground state having a half-life of around 276 days. Due to its strong radioactivity, lack of natural occurrence, and complex production requirements, Einsteinium-254 must be synthesized through advanced nuclear reaction processes, typically involving high-flux reactors and sophisticated radiochemical methods. Einsteinium-254 is mainly used in superheavy element research, nuclear structure studies, radiochemistry experiments, and fundamental actinide science. As an element located near the end of the actinide series, einsteinium provides valuable insights into heavy-element formation, nuclear stability, and nuclear reaction pathways. Although Es-254 has significant scientific importance, its extremely limited availability, short half-life, and complex production process prevent the formation of a commercial market. Applications are primarily limited to national laboratories, advanced nuclear research institutions, and international scientific collaborations.

The upstream segment of the Einsteinium-254 supply chain includes transuranium material sources, high-flux reactor facilities, nuclear fuel cycle technologies, and radiochemical separation capabilities. Since Einsteinium-254 does not occur naturally, it

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is typically produced using heavier actinide materials such as plutonium, americium, and curium as target materials. These materials undergo long-term neutron irradiation followed by successive neutron capture and decay processes to generate einsteinium isotopes. The upstream chain involves research reactors, hot-cell facilities, remote handling systems, nuclear-grade chemicals, and radioactive waste management infrastructure. Due to the dependence on advanced nuclear facilities and strict nuclear material controls, only a very limited number of national laboratories and nuclear research centers worldwide possess the capability to produce Es-254. The midstream segment of the Einsteinium-254 industry mainly includes isotope production facilities, radiochemistry laboratories, and nuclear material processing organizations. This stage covers nuclear production, chemical separation, isotope identification, purification, and secure packaging. Since Es-254 is generally produced together with other actinides and transuranium elements, advanced radiochemical techniques such as ion exchange, solvent extraction, and chromatography are required for separation. High-resolution mass spectrometry and alpha/beta/gamma spectroscopy are used to verify isotope composition and radioactive characteristics. Global Es-254 supply mainly depends on national nuclear research facilities, including advanced laboratories in the United States and Europe. Supply is typically conducted through scientific collaborations, research programs, or institutional allocations rather than conventional commercial transactions. The downstream applications of Einsteinium-254 are mainly concentrated in fundamental nuclear research, superheavy element synthesis experiments, and actinide chemistry studies. Superheavy element research represents one of the most important applications, where einsteinium targets may be used in high-energy particle reactions to investigate the formation mechanisms of heavier elements and nuclear stability. Es-254 is also valuable for studying actinide electronic structures, radioactive decay behavior, and radiochemical properties. Due to its extremely limited availability, high production cost, and strong radioactivity, Es-254 has no industrial-scale applications and is primarily used by national laboratories, university nuclear research groups, and international nuclear physics programs. With continued advances in superheavy element research and nuclear science, Es-254 will maintain its importance as a specialized research isotope.

Einsteinium-254 (Es-254), an artificially produced transuranium radioactive isotope, is primarily driven by fundamental nuclear science research and superheavy element exploration. As einsteinium is located near the end of the actinide series, it possesses unique nuclear and electronic properties, making it valuable for studying heavy-element formation mechanisms, nuclear stability, and actinide behavior. In superheavy element synthesis, high-quality actinide target materials are required for heavy-ion nuclear reactions to explore new elements, reaction pathways, and the theory of the ?island of

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stability.? Although Es-254 has limited applications due to its short half-life and extremely low availability, it remains scientifically important in nuclear physics and radiochemistry research.

A major driver for Einsteinium-254 development is the advancement of isotope production, heavy-element separation, and high-flux nuclear facility technologies. Since Es-254 cannot be obtained naturally, it must be produced through long-term neutron irradiation of heavy actinide target materials such as plutonium, americium, and curium, followed by complex nuclear reactions and radiochemical separation. Improvements in reactor operation, target fabrication, automated hot-cell technologies, and high-precision isotope analysis directly influence Es-254 availability. Modernization of nuclear research infrastructure has enabled some national laboratories to optimize transuranium isotope production processes, supporting research involving extremely rare isotopes such as Es-254.

International nuclear collaboration, advanced nuclear physics experiments, and radiochemistry programs are important factors supporting the continued use of Es-254. Currently, Es-254 is mainly supplied for national laboratories, universities, and international research collaborations studying radioactive decay, actinide chemistry, and heavy-element synthesis mechanisms. As global interest in nuclear data measurement, advanced nuclear technologies, and exploration of the limits of the periodic table increases, demand for specialized actinide isotopes is expected to remain stable. Research involving Es-254 also contributes to advances in nuclear material analysis, radiochemical separation technologies, and nuclear safety systems.

This report studies the global Einsteinium-254 production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Einsteinium-254 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 Einsteinium-254 that contribute to its increasing demand across many markets.

Highlights and key features of the study
Global Einsteinium-254 total production and demand, 2021-2032, (Gram)
Global Einsteinium-254 total production value, 2021-2032, (USD Million)
Global Einsteinium-254 production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Gram), (based on production site)

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Global Einsteinium-254 consumption by region & country, CAGR, 2021-2032 & (Gram)
U.S. VS China: Einsteinium-254 domestic production, consumption, key domestic manufacturers and share
Global Einsteinium-254 production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Gram)
Global Einsteinium-254 production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Gram)
Global Einsteinium-254 production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Gram)

This report profiles key players in the global Einsteinium-254 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 ORNL(NIDC), RITVERC JSC, ISOFLEX USA, 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 Einsteinium-254 market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Gram) and average price (US$/g) by manufacturer, by Type, 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 Einsteinium-254 Market, By Region:

United States

China

Europe

Japan

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South Korea

ASEAN

India

Rest of World

Global Einsteinium-254 Market, Segmentation by Type:

High-specific Activity

Low-specific Activity

Global Einsteinium-254 Market, Segmentation by Nuclear State:

Einsteinium-254 Ground State

Einsteinium-254m

Global Einsteinium-254 Market, Segmentation by Purity Grade:

Experimental Grade Einsteinium-254

High Purity Research Grade Einsteinium-254

Ultra-high Purity Nuclear Physics Grade

Global Einsteinium-254 Market, Segmentation by Production Source:

Reactor-produced Einsteinium-254

Accelerator-produced Einsteinium-254

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Global Einsteinium-254 Market, Segmentation by Application:

Isotope Production

Scientific Research

Companies Profiled:

ORNL(NIDC)

RITVERC JSC

ISOFLEX USA

Key Questions Answered:
1. How big is the global Einsteinium-254 market?
2. What is the demand of the global Einsteinium-254 market?
3. What is the year over year growth of the global Einsteinium-254 market?
4. What is the production and production value of the global Einsteinium-254 market?
5. Who are the key producers in the global Einsteinium-254 market?
6. What are the growth factors driving the market demand?

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