

Global Actinium-227 Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Actinium-227 market size is expected to reach \$ 75.39 million by 2032, rising at a market growth of 17.2% CAGR during the forecast period (2026-2032).

In 2025, global Actinium-227 production was approximately 198 grams, with an average global market price of around \$126,000 per gram. That year, total global production capacity for Actinium-227 reached approximately 300 grams. The industry's average gross profit margin stood at approximately 71%. Actinium-227 is a highly radioactive isotope of the actinide element actinium (atomic number 89, mass number 227). While ^{227}Ac occurs naturally in the uranium-235 (^{235}U) decay chain, its natural abundance is too low to meet commercial demand; consequently, it is primarily produced through artificial nuclear reactions. With a half-life of approximately 21.77 years, ^{227}Ac decays via alpha and beta-minus (β^-) processes into multiple daughter nuclides—including potent alpha-particle emitters capable of significant radiation-induced cell killing—making it a key candidate for Targeted Alpha Therapy (TAT). Compared to traditional beta-emitting radionuclides, alpha particles possess high energy, a short range, and intense localized destructive power, allowing for the precise targeting of tumor cells while minimizing damage to surrounding healthy tissue. Currently, ^{227}Ac is primarily used in radiopharmaceutical development—particularly for antibody-drug conjugates, peptide-based drugs, and small-molecule targeted therapies—as well as in nuclear chemistry research, the development of radioactivity standards, and the study of actinide chemical behavior.

The upstream sector of the ^{227}Ac value chain encompasses the supply of radium-226 (^{226}Ra) resources, the recovery of by-products from uranium mining, the preparation of high-purity target materials, and the operation of nuclear production facilities. Given the scarcity of natural ^{227}Ac , commercial supply relies on artificial production

methods; a well-established approach involves using ^{226}Ra as a parent nuclide and subjecting it to neutron irradiation, proton bombardment, or other nuclear reactions to generate ^{227}Ac , followed by complex radiochemical separation to isolate the final product. This upstream segment faces significant technical barriers and stringent requirements regarding nuclear material sourcing, access to reactors or accelerators, radioactive waste management capabilities, and regulatory licensing. Currently, only a limited number of institutions worldwide—primarily national laboratories, research institutes, and specialized nuclear technology companies equipped with high-flux research reactors, accelerators, and radioisotope production capabilities—are capable of stable ^{227}Ac production. Factors such as long production cycles, limited raw material availability, and constrained production capacity serve as major bottlenecks limiting industry expansion. The midstream of the Actinium-227 (^{227}Ac) value chain primarily encompasses radiochemical separation, high-purity processing, quality testing, and the preparation of radiopharmaceutical precursors. Since ^{227}Ac produced via nuclear reactions is typically accompanied by other radionuclides—such as radium, thorium, and francium—purification techniques like ion exchange, solvent extraction, and chromatography are required to yield products with the high radiochemical purity necessary for medical and scientific applications. Purified ^{227}Ac is generally supplied in forms such as chloride solutions and subsequently radiolabeled with antibodies, peptides, or small-molecule ligands to create radiopharmaceutical candidates for targeted alpha therapy (TAT) research. This midstream segment entails significant technical barriers, as it requires not only capabilities in nuclear chemical separation but also adherence to standards for quality control, aseptic manufacturing, radiation safety management, and pharmaceutical evaluation during drug development. Currently, the development of ^{227}Ac -based drugs is advancing rapidly, with numerous biopharmaceutical companies and research institutions worldwide conducting research into ^{227}Ac -based anti-cancer therapies. Downstream applications of ^{227}Ac are primarily concentrated in nuclear medicine therapy, radiopharmaceutical development, and fundamental nuclear science research. Among these, targeted alpha therapy (TAT) represents the application area with the greatest future commercial potential. ^{227}Ac and its decay progeny continuously emit alpha particles; when linked to targeting molecules that bind precisely to tumor cells, they can effectively destroy cancer cells, making them a key focus of innovative therapeutic research for conditions such as prostate cancer, neuroendocrine tumors, and hematological malignancies. Additionally, ^{227}Ac is utilized in studies of nuclide decay and actinide chemistry, as well as in the development of radioactivity metrology standards. Demand for ^{227}Ac is projected to grow steadily in the future, driven by the rapid expansion of the global radiopharmaceutical market, the rising need for precision cancer therapies, and the maturation of alpha-nuclide therapy technologies. However, due to limited production capacity and supply chain constraints

linked to nuclear facilities, it remains a high-value, small-scale strategic radioisotope.

The primary driver for the development of Actinium-227 (^{227}Ac) is the advancement of Targeted Alpha Therapy (TAT) technology. Unlike traditional beta-emitting therapeutic radionuclides, ^{227}Ac releases high-energy alpha particles during decay; these are characterized by a short range, high local energy deposition, and potent cell-killing capabilities, enabling the precise destruction of tumor cells while minimizing impact on surrounding healthy tissue. In recent years, the rise of precision cancer therapy and the maturation of radiopharmaceutical conjugation technologies have spurred interest in ^{227}Ac -based radiopharmaceuticals, which show significant potential in treating conditions such as prostate cancer, hematologic malignancies, and neuroendocrine tumors. As more alpha-emitting therapeutic agents advance to clinical trials and commercialization, the demand for ^{227}Ac as a key therapeutic radionuclide is expected to rise steadily.

The continuous growth in the global cancer patient population, combined with the limitations of traditional treatments for certain advanced cancers, has accelerated the development of precision radiotherapies. With its long half-life (approximately 21.77 years), high alpha-particle emission efficiency, and nuclear physical properties conducive to long-term drug development, ^{227}Ac is recognized as a crucial alpha-emitting therapeutic radionuclide, following in the footsteps of Radium-223 (^{223}Ra) and Actinium-225 (^{225}Ac). Advances in bioconjugation technologies, antibody-based drugs, small-molecule targeting ligands, and nuclear medicine imaging have continuously expanded the potential applications of ^{227}Ac in radiopharmaceutical development. Meanwhile, increased investment by pharmaceutical companies and research institutions in alpha-emitting drug pipelines has further driven the need for ^{227}Ac supply chain development and industrialization.

A key constraint on the industrial development of ^{227}Ac is the ability to ensure a stable supply. Due to the extremely low natural abundance of ^{227}Ac , commercial supply relies primarily on production via nuclear reactions and complex radiochemical separation techniques. Recent advancements in research reactors, high-energy accelerators, radiochemical separation, and automated radionuclide processing have gradually improved ^{227}Ac production efficiency and product quality control. Furthermore, the growing global emphasis on the security of the medical radioisotope supply chain has encouraged government agencies, research institutions, and enterprises to step up the construction of radionuclide production facilities. In the future, suppliers possessing Radium-226 resources, high-flux nuclear reaction capabilities, and radiochemical purification technologies will hold a competitive advantage in the market.

Report Scope

This report studies the global Actinium-227 production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Actinium-227 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 Actinium-227 that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Actinium-227 total production and demand, 2021-2032, (Gram)

Global Actinium-227 total production value, 2021-2032, (USD Million)

Global Actinium-227 production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Gram), (based on production site)

Global Actinium-227 consumption by region & country, CAGR, 2021-2032 & (Gram)

U.S. VS China: Actinium-227 domestic production, consumption, key domestic manufacturers and share

Global Actinium-227 production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Gram)

Global Actinium-227 production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Gram)

Global Actinium-227 production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Gram)

This report profiles key players in the global Actinium-227 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(DOE IP), Rosatom, Fusion Pharmaceuticals, 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 Actinium-227 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 Actinium-227 Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Actinium-227 Market, Segmentation by Type:

Activity Concentration?50Ci/g

Activity Concentration?50Ci/g

Global Actinium-227 Market, Segmentation by Product Form:

Actinium-227 Solution

Actinium-227 Solid Compound

Actinium-227 Standard Source

Global Actinium-227 Market, Segmentation by Chemical Purity:

Research Grade Actinium-227

High Radiochemical Purity Actinium-227

Global Actinium-227 Market, Segmentation by Production Source:

Radium-226-derived Actinium-227

Uranium Series Separation Actinium-227

Accelerator-produced Actinium-227

Reactor-produced Actinium-227

Global Actinium-227 Market, Segmentation by Application:

Nuclear Medicine

Scientific Research

Companies Profiled:

ORNL(DOE IP)

Rosatom

Fusion Pharmaceuticals

Key Questions Answered:

1. How big is the global Actinium-227 market?
2. What is the demand of the global Actinium-227 market?
3. What is the year over year growth of the global Actinium-227 market?
4. What is the production and production value of the global Actinium-227 market?
5. Who are the key producers in the global Actinium-227 market?
6. What are the growth factors driving the market demand?

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