

Global Antimony-119 Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G19740932FCCEN.html>

Date: September 2026

Pages: 85

Price: US\$ 4,480.00 (Single User License)

ID: G19740932FCCEN

Abstracts

The global Antimony-119 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 Antimony-119 production was approximately 79 grams, with an average global market price of around \$67,000 per gram. That year, total global production capacity for Antimony-119 reached approximately 130 grams. The average gross profit margin for the industry stood at approximately 57%. Antimony-119 (^{119}Sb) is an artificial radioactive isotope of the element antimony (Sb), characterized by an atomic number of 51 and a mass number of 119. While naturally occurring antimony consists primarily of the stable isotopes ^{121}Sb and ^{123}Sb , ^{119}Sb does not exist naturally in significant quantities and must be produced via artificial nuclear reactions. With a half-life of approximately 38.2 hours, ^{119}Sb decays—primarily through electron capture—into stable tin-119 (^{119}Sn), emitting characteristic gamma rays in the process; this makes it valuable for applications such as radioactive tracing and nuclear analysis. Thanks to its moderate half-life, distinct gamma-ray energy spectrum, and the chemical versatility of antimony, ^{119}Sb is utilized in fields including nuclear chemistry research, radioactive tracing, nuclear data measurement, material migration studies, and isotope analysis. Furthermore, it serves as a tool for investigating the behavior of antimony within chemical systems and materials, offering scientific value in the study of nuclear reaction mechanisms, radiochemical separation, and advanced analytical techniques. Currently, ^{119}Sb is classified as a specialized, small-batch radioisotope for research purposes; it has not yet developed into a large-scale commercial market and primarily serves research institutions, nuclear laboratories, and specialized isotope supply networks.

The upstream segment of the ^{119}Sb industry chain encompasses natural antimony resources, the production of high-purity antimony target materials, isotope production

facilities, and nuclear reaction equipment. Since natural antimony is composed mainly of stable isotopes, commercial ^{119}Sb production relies on artificial nuclear reactions. Common production routes involve using enriched ^{121}Sb , tin isotopes, or other relevant target materials, which are then subjected to nuclear reactions—such as neutron irradiation or proton bombardment—in research reactors or accelerators. This upstream stage requires capabilities in high-purity target material preparation, nuclear reaction control technology, and radioactive material management systems. Due to constraints involving radioactive isotope production licenses, nuclear facility operational requirements, and irradiation resources, few institutions worldwide can stably produce ^{119}Sb ; production is primarily concentrated in national laboratories, research institutes, and specialized isotope production facilities equipped with research reactors, cyclotrons, and radiochemistry experimental platforms. Additionally, the supply of high-purity antimony target materials and nuclear reaction efficiency are critical factors influencing ^{119}Sb yield and cost. The midstream segment of the ^{119}Sb industry chain encompasses nuclear reaction-based production, radiochemical separation, purification, activity measurement, and product packaging and supply. Since nuclear reactions generate other antimony isotopes and byproduct radionuclides, techniques such as ion exchange, solvent extraction, precipitation, and chromatography are required to obtain ^{119}Sb products with high radiochemical purity. Depending on specific research needs, ^{119}Sb is typically supplied as antimony chloride solution, antimony nitrate solution, or in other chemical forms for use in subsequent tracer experiments, nuclear chemistry research, and analytical testing. Core technologies in the midstream segment focus on increasing nuclide yield, minimizing impurity levels, ensuring the accuracy of activity measurements, and achieving stable batch supply. Given the approximately 38-hour half-life of ^{119}Sb —which imposes strict requirements on transport and timing—supply is generally organized through project-specific customization and regional distribution models. Looking ahead, the demand for high-purity, highly reliable ^{119}Sb supplies is expected to remain stable, driven by advancements in nuclear data research, advanced material analysis, and radioactive tracer technologies. Downstream applications of ^{119}Sb are primarily concentrated in nuclear chemistry research, radioactive tracing, materials science analysis, and nuclear data experimentation. In nuclear science, ^{119}Sb is used to study antimony isotope decay patterns, nuclear reaction mechanisms, and the refinement of nuclear databases, thereby providing experimental data to support fundamental nuclear physics research. In the field of radioactive tracing, the gamma-ray characteristics of ^{119}Sb enable the tracking and analysis of chemical reaction processes, elemental migration behavior, and material diffusion patterns. Furthermore, given the utility of antimony in semiconductor materials, alloys, and specialized chemical systems, ^{119}Sb is also employed in research concerning the behavior of these materials. In the future, driven by

advancements in high-precision detection technology, nuclear analysis methods, and research into advanced materials, ^{119}Sb will continue to see steady demand in research-oriented applications; however, due to its limited scope of use, the market is expected to remain characterized by small scale and high value.

The development of Antimony-119 is primarily driven by needs in nuclear physics research, nuclear reaction data measurement, and fundamental radiochemistry studies. With a half-life of approximately 38 hours and the emission of characteristic gamma rays during decay, ^{119}Sb is suitable for applications such as investigating nuclide decay patterns, measuring nuclear reaction cross-sections, and refining nuclear databases. Advances in nuclear energy technology, the optimization of nuclear reaction models, and high-precision nuclear experiments have led to a growing demand among research institutions for isotopes with well-defined nuclear properties and traceable decay characteristics. As a significant nuclide within the antimony system, ^{119}Sb facilitates the analysis of nuclear reaction processes and isotope transformation patterns, while providing essential data support for nuclear science experiments.

The scope of ^{119}Sb applications continues to expand alongside advancements in high-precision analytical techniques, radioactive tracing methods, and materials research. Its advantageous gamma-ray detection properties make ^{119}Sb an effective tracer nuclide for studying elemental migration, chemical reaction processes, and material diffusion behavior. Given the widespread use of antimony in semiconductors, alloys, and specialized functional materials, utilizing radioactive tracing to analyze the migration patterns of antimony and related elements in various environments holds significant scientific value. Furthermore, ^{119}Sb serves as a valuable experimental tool in fields such as environmental radioactivity research, the assessment of materials for nuclear facilities, and the analysis of complex chemical systems. Looking ahead, the demand for tracer isotopes like ^{119}Sb is expected to remain stable, supported by improvements in the sensitivity of advanced detection instruments and the increasing sophistication of materials research.

The industrial development of Antimony-119 relies fundamentally on the ability to ensure a stable supply of high-purity nuclides. Currently, ^{119}Sb is primarily produced via irradiation in research reactors or through accelerator-based nuclear reactions, followed by purification using radiochemical techniques such as ion exchange, solvent extraction, and chromatography. In recent years, the production stability and purity of research-grade radioactive isotopes have improved significantly, driven by enhanced operational efficiency in research nuclear facilities, the development of automated radiochemical processing equipment, and refined quality control technologies.

Concurrently, the rising global demand from research institutions for highly reliable nuclide supplies has encouraged specialized isotope suppliers to expand and strengthen their production capabilities. In the future, institutions possessing nuclear reaction facilities, radiochemical technologies, and quality control systems will maintain a competitive advantage in the antimony-119 supply system.

Report Scope

This report studies the global Antimony-119 production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Antimony-119 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 Antimony-119 that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Antimony-119 total production and demand, 2021-2032, (Gram)

Global Antimony-119 total production value, 2021-2032, (USD Million)

Global Antimony-119 production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Gram), (based on production site)

Global Antimony-119 consumption by region & country, CAGR, 2021-2032 & (Gram)

U.S. VS China: Antimony-119 domestic production, consumption, key domestic manufacturers and share

Global Antimony-119 production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Gram)

Global Antimony-119 production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Gram)

Global Antimony-119 production by Application, production, value, CAGR,

2021-2032, (USD Million) & (Gram)

This report profiles key players in the global Antimony-119 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 NIDC(DOE IP), Oak Ridge National Laboratory, Rosatom, 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 Antimony-119 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 Antimony-119 Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Antimony-119 Market, Segmentation by Type:

Radionuclidic Purity: 98%-99%

Radionuclidic Purity: >99%

Global Antimony-119 Market, Segmentation by Product Form:

Antimony-119 Solution

Solid Antimony-119 Compound

Antimony-119 Standard Source

Global Antimony-119 Market, Segmentation by Activity Level:

Low-activity Antimony-119

Medium-activity Antimony-119

High-activity Antimony-119

Global Antimony-119 Market, Segmentation by Production Route:

Reactor-produced Gold-199

Accelerator-produced Gold-199

Laboratory-produced Gold-199

Global Antimony-119 Market, Segmentation by Application:

Nuclear Medicine

Scientific Research

Companies Profiled:

NIDC(DOE IP)

Oak Ridge National Laboratory

Rosatom

Key Questions Answered:

1. How big is the global Antimony-119 market?
2. What is the demand of the global Antimony-119 market?
3. What is the year over year growth of the global Antimony-119 market?
4. What is the production and production value of the global Antimony-119 market?
5. Who are the key producers in the global Antimony-119 market?
6. What are the growth factors driving the market demand?

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