

# Global Actinium-225 Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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## Abstracts

According to our (Global Info Research) latest study, the global Actinium-225 market size was valued at USD million in 2023 and is forecast to a readjusted size of USD million by 2030 with a CAGR of % during review period.

Actinium-225 ( $^{225}\text{Ac}$ , Ac-225) is an isotope of actinium. It undergoes alpha decay to francium-221 with a half-life of 10 days, and is an intermediate decay product in the neptunium series (the decay chain starting at  $^{237}\text{Np}$ ). Except for minuscule quantities arising from this decay chain in nature,  $^{225}\text{Ac}$  is entirely synthetic.

The decay properties of actinium-225 are favorable for usage in targeted alpha therapy (TAT); clinical trials have demonstrated the applicability of radiopharmaceuticals containing  $^{225}\text{Ac}$  to treat various types of cancer. However, the scarcity of this isotope resulting from its necessary synthesis in cyclotrons limits its potential applications.

The key players of Actinium-225 include ORNL, Tri-Lab and SSC RF-IPPE, etc. The top three players hold a share over 70%. North America is the largest market, has a share about 58%. In terms of product type, Thorium-229 Decay is the largest segment, occupied for a share of about 73%, and in terms of application, Scientific Research has a share about 66 percent.

The Global Info Research report includes an overview of the development of the Actinium-225 industry chain, the market status of Scientific Research (Accelerator, Thorium-229 Decay), Cancer Therapy (Accelerator, Thorium-229 Decay), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Actinium-225.

Regionally, the report analyzes the Actinium-225 markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Actinium-225 market, with robust domestic demand, supportive policies, and a strong manufacturing base.

#### Key Features:

The report presents comprehensive understanding of the Actinium-225 market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Actinium-225 industry.

The report involves analyzing the market at a macro level:

**Market Sizing and Segmentation:** Report collect data on the overall market size, including the sales quantity (mCi), revenue generated, and market share of different by Type (e.g., Accelerator, Thorium-229 Decay).

**Industry Analysis:** Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Actinium-225 market.

**Regional Analysis:** The report involves examining the Actinium-225 market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

**Market Projections:** Report covers the gathered data and analysis to make future projections and forecasts for the Actinium-225 market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Actinium-225:

**Company Analysis:** Report covers individual Actinium-225 manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

**Consumer Analysis:** Report covers data on consumer behaviour, preferences, and attitudes towards Actinium-225. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Scientific Research, Cancer Therapy).

**Technology Analysis:** Report covers specific technologies relevant to Actinium-225. It assesses the current state, advancements, and potential future developments in Actinium-225 areas.

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Actinium-225 market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

**Market Validation:** The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

## Market Segmentation

Actinium-225 market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

### Market segment by Type

Accelerator

Thorium-229 Decay

### Market segment by Application

Scientific Research

Cancer Therapy

### Major players covered

ORNL

Tri-Lab

SSC RF-IPPE

JRC Karlsruhe

TerraPower

TRIUMF

Eckert&Ziegler

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Actinium-225 product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Actinium-225, with price, sales, revenue and global market share of Actinium-225 from 2019 to 2024.

Chapter 3, the Actinium-225 competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Actinium-225 breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023. and Actinium-225 market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Actinium-225.

Chapter 14 and 15, to describe Actinium-225 sales channel, distributors, customers, research findings and conclusion.

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