

Global Bromine-77 Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Bromine-77 market size was valued at US\$ million in 2025 and is forecast to a readjusted size of US\$ million by 2032 with a CAGR of %during review period.

In 2025, global production of bromine-77 was approximately 37 grams, with an average global market price of about US\$44,000 per gram. Total global production capacity of bromine-77 reached approximately 65 grams in 2025. The industry average gross profit margin for this product was approximately 62%. Bromine-77 (^{77}Br) is an artificially produced radioactive isotope of bromine with an atomic number of 35 and a mass number of 77. Unlike naturally occurring stable bromine isotopes (^{79}Br and ^{81}Br), Bromine-77 is mainly produced through nuclear reactions, such as irradiation of enriched Selenium-77 (^{77}Se) targets with proton beams or other accelerated particles. With a moderate half-life of approximately 57 hours, Bromine-77 undergoes electron capture decay and emits characteristic gamma radiation, making it valuable for nuclear medicine research, radiopharmaceutical development, isotope tracing, and fundamental radiochemistry studies. Due to its relatively short half-life and limited production and transportation window, Bromine-77 is considered a specialized, low-volume, high-technology radioactive isotope product.

The upstream segment of the Bromine-77 industry mainly includes isotope production materials, nuclear reaction targets, accelerator facilities, and nuclear infrastructure suppliers. Key raw materials include high-purity Selenium-77 targets, enriched selenium isotopes, and related chemical reagents. The availability of enriched Selenium-77 directly influences Bromine-77 production capacity. Production typically relies on cyclotrons, research reactors, or other nuclear reaction facilities, followed by radiochemical separation, purification, and quality testing processes to obtain research-

grade Bromine-77. Due to strict regulations regarding radioactive isotope production licenses, nuclear facility operation, and specialized technical expertise, the upstream supply chain has significant entry barriers, with only a limited number of global facilities capable of stable production. The midstream segment mainly covers radioactive isotope production, radiochemical separation, purification, quality control, and specialized packaging and transportation services. Producers and research institutions typically supply Bromine-77 in different activity levels and chemical forms, such as bromide solutions, radiolabeling precursors, or customized research samples. Because of its short half-life, midstream suppliers must have rapid production capabilities, efficient quality testing procedures, and specialized radioactive logistics systems to ensure timely delivery. The main value creation areas include nuclear reaction optimization, radiochemical processing technology, radioactive purity control, and compliance with international radioactive material transportation standards. The downstream applications of Bromine-77 mainly focus on nuclear medicine research, radiopharmaceutical development, molecular imaging, and life science studies. In nuclear medicine, Bromine-77 can serve as a radioactive tracer for studying drug distribution, metabolic pathways, and biological molecular behavior, while also supporting the development of new radiopharmaceutical candidates. In addition, Bromine-77 is used in radiochemistry, nuclear physics experiments, and isotope labeling research. With the continued development of targeted radiotherapy, precision medicine, and advanced nuclear medicine technologies, demand for specialized radionuclides is expected to increase. As a research-oriented radionuclide with unique nuclear characteristics, Bromine-77 is expected to maintain steady growth driven primarily by scientific research and pharmaceutical innovation.

The primary growth drivers of the Bromine-77 industry come from the continuous expansion of nuclear medicine and radiopharmaceutical research. With the rapid development of precision medicine, molecular imaging, and targeted therapies, global demand for specialized radionuclides continues to increase. Due to its unique decay characteristics and chemical labeling capabilities, Bromine-77 can be used as a radioactive tracer to study drug distribution, metabolic pathways, and biological mechanisms, while also supporting the development of novel radiopharmaceutical candidates. The shift toward personalized and precision-based cancer diagnosis and treatment has encouraged research institutions and pharmaceutical companies to increase investment in specialized radionuclide resources.

Advances in radioactive isotope production technologies represent a key factor supporting the development of Bromine-77. Production of Bromine-77 relies mainly on enriched Selenium-77 target materials and nuclear reaction facilities such as cyclotrons.

Its supply capability is influenced by target preparation, irradiation efficiency, radiochemical separation, and quality control technologies. With increasing investment in medical isotope production infrastructure, wider deployment of advanced cyclotrons, and improvements in automated radiochemistry systems, the production efficiency and quality consistency of Bromine-77 continue to improve. Meanwhile, stronger collaboration among nuclear medicine centers worldwide is enhancing the supply capability of short-lived radionuclides.

In the future, the Bromine-77 industry is expected to develop as a small-volume, high-value, application-driven isotope market. Due to its relatively short half-life, Bromine-77 is unlikely to develop into a large-scale inventory-based commodity and will continue to rely on project-based demand, preclinical research, and customized supply models. Future growth opportunities will mainly come from innovative radiopharmaceutical development, targeted radionuclide therapy (TRT), molecular probe research, and fundamental nuclear medicine studies. As new therapeutic targets continue to emerge, demand for specialized radioactive labeling materials with unique nuclear properties is expected to increase.

This report is a detailed and comprehensive analysis for global Bromine-77 market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Bromine-77 market size and forecasts, in consumption value (\$ Million), sales quantity (Gram), and average selling prices (US\$/g), 2021-2032

Global Bromine-77 market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Gram), and average selling prices (US\$/g), 2021-2032

Global Bromine-77 market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Gram), and average selling prices (US\$/g), 2021-2032

Global Bromine-77 market shares of main players, shipments in revenue (\$ Million),

sales quantity (Gram), and ASP (US\$/g), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Bromine-77

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Bromine-77 market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include NIDC(DOE IP), Rosatom, Trace Sciences, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Bromine-77 market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Solution

Solid Target

Market segment by Radioactivity

Low Activity Bromine-77

Medium Activity Bromine-77

High Activity Bromine-77

Market segment by Chemical Form

Bromine-77 Bromide

Organobromine-77 Compounds

Bromine-77 Radiopharmaceutical Precursors

Market segment by Production Technology Route

Selenium-77 Proton Bombardment Production

Alternative Nuclear Reaction Production

Reactor-Based Production

Market segment by Application

Imaging Agent

Disease Treatment

Major players covered

NIDC(DOE IP)

Rosatom

Trace Sciences

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 Bromine-77 product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Bromine-77, with price, sales quantity, revenue, and global market share of Bromine-77 from 2021 to 2026.

Chapter 3, the Bromine-77 competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Bromine-77 breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

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 2021 to 2026. and Bromine-77 market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Bromine-77.

Chapter 14 and 15, to describe Bromine-77 sales channel, distributors, customers, research findings and conclusion.

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