

Global Manganese-54 Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Manganese-54 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 Manganese-54 was approximately 520 grams, with an average global market price of approximately US\$3,200 per gram. Total global production capacity of Manganese-54 reached approximately 750 grams in 2025. The industry average gross profit margin for this product was approximately 52%. Manganese-54 (^{54}Mn) is an artificially produced radioactive isotope of manganese with an atomic number of 25 and a mass number of 54. Unlike the naturally occurring stable isotope manganese-55 (^{55}Mn), Manganese-54 is mainly produced through nuclear reactions, such as irradiation of Iron-54 (^{54}Fe), iron, chromium, or related target materials using proton beams or other particle irradiation methods. With a half-life of approximately 312 days, Manganese-54 decays through electron capture and emits a characteristic gamma ray of around 835 keV, making it valuable in nuclear physics research, industrial non-destructive testing, environmental tracing, materials science, and life science studies. Due to its moderate half-life, stable gamma emission, and convenient detection characteristics, Manganese-54 has been widely used as a calibration source and radioactive tracer in scientific and industrial applications.

The upstream segment of the Manganese-54 industry mainly includes stable isotope materials, metal targets, nuclear reaction facilities, and radiochemical reagent suppliers. Production of Manganese-54 typically requires high-purity Iron-54, natural iron, chromium materials, or manganese-related targets, which are irradiated in research reactors, neutron sources, or cyclotron facilities, followed by chemical separation, purification, and radioactive quality testing. Key upstream technologies include target preparation, nuclear reaction optimization, radioactive impurity control, and isotope

production facility operation. Due to strict nuclear safety requirements, irradiation facility licensing, and specialized expertise, stable Manganese-54 production capability is mainly concentrated in countries and research systems with advanced nuclear infrastructure. The midstream segment mainly covers radioactive isotope production, radiochemical separation, quality testing, reference source preparation, and specialized packaging and transportation services. Depending on application requirements, suppliers provide Manganese-54 in different activity levels and chemical forms, such as Manganese-54 chloride ($^{54}\text{MnCl}_2$) solutions, calibration point sources, reference sources, and research tracer samples. Compared with short-lived radionuclides, Manganese-54 has a relatively longer half-life, allowing more flexible storage and transportation conditions and enabling more stable inventory-based supply. Key value-added capabilities in the midstream sector include high-purity preparation, radiochemical purity control, activity calibration, and compliance with international radioactive material transportation standards. The downstream applications of Manganese-54 mainly cover industrial testing, materials research, environmental science, nuclear technology applications, and fundamental scientific research. In industrial applications, Manganese-54 is widely used as a gamma-ray reference source, instrument calibration source, and radiation measurement testing material. In materials science, it is used to study corrosion behavior, diffusion mechanisms, and material migration processes. In environmental research, Manganese-54 can serve as a tracer for investigating pollutant transport and geochemical processes. It is also applied in nuclear physics experiments, nuclear data measurements, and radiochemistry research. In the future, with continued advances in advanced materials research, environmental monitoring technologies, and nuclear measurement systems, demand for reliable and high-purity Manganese-54 products is expected to remain stable, driven by both scientific and industrial applications.

The primary growth drivers of the Manganese-54 industry come from increasing demand in industrial inspection, nuclear technology applications, and materials science research. With a half-life of approximately 312 days and a stable characteristic gamma emission of around 835 keV, Manganese-54 provides significant value in radiation calibration sources, radiation detection equipment verification, industrial non-destructive testing, and laboratory measurement system calibration. As industrial automation, precision measurement technologies, and nuclear instrumentation continue to advance, global demand for reliable radioactive reference sources and standardized calibration materials continues to support the stable development of Manganese-54 applications.

Scientific research development is another important factor driving the expansion of Manganese-54 applications. As a representative gamma-emitting tracer isotope,

Manganese-54 is widely used in studies of material diffusion, metal corrosion, environmental migration, and nuclear reaction data analysis. In recent years, advances in advanced materials, high-temperature alloys, new energy materials, and environmental science have created higher requirements for understanding trace element migration, material degradation behavior, and long-term performance. These developments have increased demand for Manganese-54 in materials research and environmental tracing applications. Meanwhile, progress in nuclear physics experiments, radiochemistry, and isotope analysis technologies continues to support research demand for high-quality Manganese-54 products.

In the future, the Manganese-54 industry is expected to develop toward stable supply, specialized applications, and high-value technical services. Compared with many short-lived radionuclides, Manganese-54 offers longer storage capability and more flexible transportation conditions, making it suitable for reference sources and long-term research projects. Future growth opportunities will mainly come from upgrades in industrial inspection systems, replacement of nuclear measurement equipment, advanced materials research, and environmental monitoring technologies. Suppliers will increasingly focus on activity stability, reference source preparation capabilities, quality traceability systems, and global delivery capabilities to meet specialized customer requirements.

This report studies the global Manganese-54 production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Manganese-54 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 Manganese-54 that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Manganese-54 total production and demand, 2021-2032, (Gram)

Global Manganese-54 total production value, 2021-2032, (USD Million)

Global Manganese-54 production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Gram), (based on production site)

Global Manganese-54 consumption by region & country, CAGR, 2021-2032 & (Gram)

U.S. VS China: Manganese-54 domestic production, consumption, key domestic manufacturers and share

Global Manganese-54 production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Gram)

Global Manganese-54 production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Gram)

Global Manganese-54 production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Gram)

This report profiles key players in the global Manganese-54 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 POLATOM, Eckert & Ziegler, NIDC(DOE IP), 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 Manganese-54 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 Manganese-54 Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Manganese-54 Market, Segmentation by Type:

Purity?98%-99%

Purity??99%

Global Manganese-54 Market, Segmentation by Radioactivity:

Low Activity Manganese-54

Medium Activity Manganese-54

High Activity Manganese-54

Global Manganese-54 Market, Segmentation by Form:

Solution

Solid

Global Manganese-54 Market, Segmentation by Production Technology Route:

Iron-54 Proton Reaction Production

Iron/Chromium Target Irradiation

Reactor-Based Production

Global Manganese-54 Market, Segmentation by Application:

Radiopharmaceutical Agent

Scientific Research

Companies Profiled:

POLATOM

Eckert & Ziegler

NIDC(DOE IP)

Key Questions Answered:

1. How big is the global Manganese-54 market?
2. What is the demand of the global Manganese-54 market?
3. What is the year over year growth of the global Manganese-54 market?
4. What is the production and production value of the global Manganese-54 market?
5. Who are the key producers in the global Manganese-54 market?
6. What are the growth factors driving the market demand?

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