

# Global Gallium-71 Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Gallium-71 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 Gallium-71 production was approximately 320 grams, with an average global market price of around \$10,500 per gram. That year, total global production capacity for Gallium-71 reached approximately 500 grams per year, and the industry's average gross profit margin was about 35%. Gallium-71 is a stable isotope of the element gallium, characterized by an atomic number of 31 and a mass number of 71 (comprising 31 protons and 40 neutrons); it has a natural abundance of approximately 39.89% and a nuclear spin of 3/2. In the market, "Gallium-71" typically refers to enriched products with an isotopic abundance exceeding 99%, available in forms such as gallium-71 metal, gallium-71 oxide, and custom-made targets. Its primary value lies in neutrino detection, research into nuclear structure and reactions, nuclear data measurement, and the production of specific radionuclides.

The upstream sector primarily encompasses resources derived as by-products from bauxite processing and zinc smelting, high-purity natural gallium, gallium oxide, and the specialized equipment required for isotope separation. Gallium is generally recovered as a by-product of alumina production and zinc smelting; it undergoes extraction, electrolysis, and zone melting or crystallization purification to yield high-purity gallium metal, which then serves as the feedstock for gallium-71 enrichment. Key upstream support also includes electromagnetic isotope separation devices, ion sources, high-vacuum systems, collectors, high-purity reagents, and mass spectrometry equipment; the stability of this supply chain is influenced by policies regarding gallium resources, high-purity gallium production capacity, and the operational status of isotope separation facilities. The midstream sector involves gallium isotope separation, recovery of

enriched materials, chemical purification, abundance verification, chemical form conversion, and target fabrication. Because gallium-69 and gallium-71 share nearly identical chemical properties, effective separation cannot be achieved through conventional chemical methods; instead, physical techniques such as electromagnetic separation are required. The resulting gallium-71 can be further processed into metals, oxides, salts, solutions, pressed targets, or deposited targets. The downstream sector primarily covers neutrino physics, experiments on nuclear reactions and structure, nuclear data measurement, and radionuclide research and development. Gallium-71 enables the detection of electron neutrinos via the  ${}^{71}\text{Ga}(\nu_e, e^-){}^{71}\text{Ge}$  reaction, making it a crucial target nucleus for studying solar neutrinos and the "gallium anomaly." Enriched products are primarily used in precision experiments requiring the elimination of Gallium-69 interference, research on the  ${}^{71}\text{Ga}(p, n){}^{71}\text{Ge}$  reaction, and the fabrication of accelerator targets; additionally, methods for producing medical radionuclides such as Copper-67 via photonuclear reactions are currently being explored.

The Gallium-71 industry is primarily driven by the demand for fundamental nuclear physics and neutrino research. Capable of reacting with electron neutrinos to produce Germanium-71, Gallium-71 serves as a crucial material for studying solar neutrinos, sterile neutrinos, and nuclear reaction cross-sections. The BEST experiment, highlighted by the U.S. Department of Energy, has further heightened interest in this area of research.

The development of medical radionuclides represents another potential growth driver. Current research is exploring the production of Copper-67—which holds promise for both diagnostic and therapeutic applications—via photonuclear reactions using enriched Gallium-71. Should engineering breakthroughs be achieved in reaction efficiency, target material recovery rates, and post-processing techniques, Gallium-71 could transition from its current status as a material primarily procured for scientific research into the supply chain for medical radionuclide targets. However, as this pathway remains largely in the stages of R&D validation and demonstration, it is unlikely to generate large-scale, continuous demand in the near term.

On the supply side, the market is characterized by small-batch production, high technical barriers, and high recovery value. Although the natural abundance of Gallium-71 is approximately 39.89%—higher than that of many other rare stable isotopes—enriching it to levels exceeding 99% still requires specialized facilities for isotope separation, chemical purification, and quality testing. Currently, the U.S. National Isotope Development Center supplies Gallium-71 with an enrichment level exceeding 99.2%, yet orders are still placed in milligram quantities, indicating that the

market has not yet reached the stage of standardized mass production. Future suppliers will likely focus on enhancing separation efficiency, increasing batch yields, and establishing systems for target material recovery and reuse to reduce the cost per unit of use.

## Report Scope

This report studies the global Gallium-71 production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Gallium-71 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 Gallium-71 that contribute to its increasing demand across many markets.

## Highlights and key features of the study

Global Gallium-71 total production and demand, 2021-2032, (Gram)

Global Gallium-71 total production value, 2021-2032, (USD Million)

Global Gallium-71 production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Gram), (based on production site)

Global Gallium-71 consumption by region & country, CAGR, 2021-2032 & (Gram)

U.S. VS China: Gallium-71 domestic production, consumption, key domestic manufacturers and share

Global Gallium-71 production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Gram)

Global Gallium-71 production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Gram)

## Global Gallium-71 production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Gram)

This report profiles key players in the global Gallium-71 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 Rosatom, ORNL, CortecNet, Eurisotop, American Elements, Isoflex, Trace Sciences International, Clearsynth, Neonest AB(BuyIsotope), Parchem, 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 Gallium-71 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 Gallium-71 Market, By Region:**

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

## **Market Segmentation**

### **Global Gallium-71 Market, Segmentation by Type:**

Reactor Irradiation Production

Accelerator Synthesis

Others

### **Global Gallium-71 Market, Segmentation by Isotopic Abundance:**

Moderately Enrichment (99.0%–99.5%)

Highly Enrichment (>99.5%–99.9%)

Ultra-highly Enrichment (?99.9%)

### **Global Gallium-71 Market, Segmentation by Chemical Form:**

Gallium-71 Metal

Gallium-71 Oxide

Others

### **Global Gallium-71 Market, Segmentation by Purity Grade:**

3N

4N

5N

Others

### **Global Gallium-71 Market, Segmentation by Application:**

Semiconductor and Optical Materials

Nuclear Industry

Scientific Research

### **Companies Profiled:**

Rosatom

ORNL

CortecNet

Eurisotop

American Elements

Isoflex

Trace Sciences International

Clearsynth

Neonest AB(BuyIsotope)

Parchem

## Key Questions Answered

1. How big is the global Gallium-71 market?
2. What is the demand of the global Gallium-71 market?
3. What is the year over year growth of the global Gallium-71 market?
4. What is the total value of the global Gallium-71 market?
5. Who are the Major Players in the global Gallium-71 market?
6. What are the growth factors driving the market demand?

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