

Global Cerium-140 Market Growth 2026-2032

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Abstracts

The global Cerium-140 market size is predicted to grow from US\$ million in 2025 to US\$ million in 2032; it is expected to grow at a CAGR of %from 2026 to 2032.

In 2025, global production of Cerium-140 was approximately 520 grams, with an average global market price of around \$3,200 per gram. That year, total global production capacity for Cerium-140 reached approximately 800 grams, and the industry's average gross profit margin stood at about 33%. Cerium-140 is a stable isotope of the element cerium, characterized by an atomic number of 58 and a mass number of 140 (comprising 58 protons and 82 neutrons). It accounts for approximately 88.45% of natural cerium, making it the most abundant naturally occurring cerium isotope. With a neutron count of 82—corresponding to a closed nuclear shell structure—cerium-140 holds significant scientific value in the study of nuclear structure, nuclear reactions, and neutron capture.

The upstream segment encompasses the mining and beneficiation of rare-earth resources such as bastn?site and monazite, as well as processes including rare-earth leaching, separation, and the preparation of high-purity cerium feedstocks. Through processes such as solvent extraction, precipitation, and calcination, natural cerium is converted into high-purity cerium oxide, cerium salts, or metallic cerium to serve as feed material for isotope separation. This stage also involves the provision of electromagnetic isotope separation equipment, ion sources, high-vacuum systems, collectors, mass spectrometry detection systems, and high-purity chemical reagents. Although the natural abundance of cerium-140 is nearly 90%—making it easier to enrich than cerium-136 or cerium-138—achieving an abundance exceeding 99% still requires specialized isotope separation and purification capabilities. The midstream segment primarily covers isotope enrichment, chemical conversion, purification, abundance verification, and target fabrication. Since different cerium isotopes share nearly identical chemical properties, conventional chemical methods are ineffective for separation;

consequently, physical methods such as electromagnetic isotope separation are typically employed, followed by the conversion of enriched material into forms such as cerium-140 oxide, metallic cerium-140, salts, or solutions. Midstream enterprises may also fabricate specialized targets, including pressed targets, self-supporting targets, deposited targets, and thin-film targets. The downstream segment focuses on applications such as nuclear physics experiments, neutron nuclear data measurement, nuclear structure research, nuclear astrophysics, and isotope analysis. Enriched Cerium-140 can serve as a target material for accelerator and neutron beam experiments to measure cross-sections for neutron capture, scattering, and charged-particle nuclear reactions; it can also be used for the production of Cerium-141 and related tracer studies via the $^{140}\text{Ce}(n, \gamma)^{141}\text{Ce}$ reaction. Additionally, it finds application in mass spectrometry calibration, isotopic composition research, and experiments involving specialized materials.

The primary driver for the development of the Cerium-140 industry stems from research into nuclear structure and nuclear reactions. With 82 neutrons and a closed nuclear shell structure, Cerium-140 is a key subject for studying nuclear energy levels, collective motion, and shell evolution. As the construction of accelerators, research reactors, and neutron science facilities continues, research institutions are increasingly demanding high-abundance Cerium-140 targets—primarily for applications involving neutron capture, scattering, charged-particle reactions, and the measurement of nuclear reaction cross-sections.

The refinement of nuclear data and the production of radionuclides constitute another source of demand. Enriched Cerium-140 can enhance target purity for the $^{140}\text{Ce}(n, \gamma)^{141}\text{Ce}$ reaction, supporting the production of Cerium-141, tracer experiments, and decay data research, as well as studies on neutron capture processes and nucleosynthesis in nuclear astrophysics. These applications typically utilize targets in the form of oxides, metal foils, or pressed pellets ranging from milligram to small-gram quantities; while individual orders are small in scale, they demand high levels of isotopic enrichment, chemical purity, and target uniformity.

Developments on the supply side are driven by the need for secure stable isotope supplies and the modernization of separation facilities. Given that the natural abundance of Cerium-140 is approximately 88.45%, the technical challenge of enriching it to over 99% is relatively lower than that for Cerium-136 or Cerium-138, and it can often be obtained as a primary co-product during cerium isotope separation processes. Future production strategies will increasingly focus on multi-isotope co-production, inventory reuse, and spent-target recovery to improve raw material utilization, while unit

costs will be reduced through advancements in electromagnetic separation, chemical conversion, and impurity detection technologies.

Report Scope

LP Information, Inc. (LPI) ' newest research report, the “Cerium-140 Industry Forecast” looks at past sales and reviews total world Cerium-140 sales in 2025, providing a comprehensive analysis by region and market sector of projected Cerium-140 sales for 2026 through 2032. With Cerium-140 sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Cerium-140 industry.

This Insight Report provides a comprehensive analysis of the global Cerium-140 landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Cerium-140 portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Cerium-140 market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Cerium-140 and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Cerium-140.

This report presents a comprehensive overview, market shares, and growth opportunities of Cerium-140 market by product type, application, key manufacturers and key regions and countries.

Market Segmentation

Segmentation by Type:

Reactor Irradiation Production

Accelerator Synthesis

Others

Segmentation by Isotopic Enrichment:

Primary Enrichment (>90%–95%)

High Enrichment (>95%–99%)

Ultra-high Enrichment (>99%)

Segmentation by Chemical Form:

Cerium-140 Oxide

Cerium-140 Metal

Cerium-140 Salts

Cerium-140 Solution

Segmentation by Chemical Purity:

3N

4N

5N

Others

Segmentation by Application:

Nuclear Medicine

Industrial Tracer

Scientific Research

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Rosatom

ORNL

CIAE

LANL

Institute for Transuranium Elements

Neonest AB(BuyIsotope)

Trace Sciences International

CortecNet

American Elements

Key Questions Addressed in this Report

What is the 10-year outlook for the global Cerium-140 market?

What factors are driving Cerium-140 market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Cerium-140 market opportunities vary by end market size?

How does Cerium-140 break out by Type, by Application?

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