

# Global Cerium-140 Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GBD84CA45281EN.html>

Date: September 2026

Pages: 103

Price: US\$ 4,480.00 (Single User License)

ID: GBD84CA45281EN

## Abstracts

The global Cerium-140 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 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 bastnäsite 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

This report studies the global Cerium-140 production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Cerium-140 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 Cerium-140 that contribute to its increasing demand across many markets.

## Highlights and key features of the study

Global Cerium-140 total production and demand, 2021-2032, (Gram)

Global Cerium-140 total production value, 2021-2032, (USD Million)

Global Cerium-140 production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Gram), (based on production site)

Global Cerium-140 consumption by region & country, CAGR, 2021-2032 & (Gram)

U.S. VS China: Cerium-140 domestic production, consumption, key domestic manufacturers and share

Global Cerium-140 production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Gram)

Global Cerium-140 production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Gram)

## Global Cerium-140 production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Gram)

This report profiles key players in the global Cerium-140 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, CIAE, LANL, Institute for Transuranium Elements, Neonest AB(BuyIsotope), Trace Sciences International, CortecNet, American Elements, 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 Cerium-140 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 Cerium-140 Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

## **Market Segmentation**

### **Global Cerium-140 Market, Segmentation by Type:**

Reactor Irradiation Production

Accelerator Synthesis

Others

### **Global Cerium-140 Market, Segmentation by Isotopic Enrichment:**

Primary Enrichment (>90%–95%)

High Enrichment (>95%–99%)

Ultra-high Enrichment (>99%)

### **Global Cerium-140 Market, Segmentation by Chemical Form:**

Cerium-140 Oxide

Cerium-140 Metal

Cerium-140 Salts

Cerium-140 Solution

## **Global Cerium-140 Market, Segmentation by Chemical Purity:**

3N

4N

5N

Others

## **Global Cerium-140 Market, Segmentation by Application:**

Nuclear Medicine

Industrial Tracer

Scientific Research

## **Companies Profiled:**

Rosatom

ORNL

CIAE

LANL

Institute for Transuranium Elements

Neonest AB(BuyIsotope)

Trace Sciences International

CortecNet

American Elements

## Key Questions Answered

1. How big is the global Cerium-140 market?
2. What is the demand of the global Cerium-140 market?
3. What is the year over year growth of the global Cerium-140 market?
4. What is the total value of the global Cerium-140 market?
5. Who are the Major Players in the global Cerium-140 market?
6. What are the growth factors driving the market demand?

## Contents

### 1 SUPPLY SUMMARY

- 1.1 Cerium-140 Introduction
- 1.2 World Cerium-140 Supply & Forecast
  - 1.2.1 World Cerium-140 Production Value (2021 & 2025 & 2032)
  - 1.2.2 World Cerium-140 Production (2021-2032)
  - 1.2.3 World Cerium-140 Pricing Trends (2021-2032)
- 1.3 World Cerium-140 Production by Region (Based on Production Site)
  - 1.3.1 World Cerium-140 Production Value by Region (2021-2032)
  - 1.3.2 World Cerium-140 Production by Region (2021-2032)
  - 1.3.3 World Cerium-140 Average Price by Region (2021-2032)
  - 1.3.4 North America Cerium-140 Production (2021-2032)
  - 1.3.5 Europe Cerium-140 Production (2021-2032)
  - 1.3.6 China Cerium-140 Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
  - 1.4.1 Cerium-140 Market Drivers
  - 1.4.2 Factors Affecting Demand
  - 1.4.3 Cerium-140 Major Market Trends

### 2 DEMAND SUMMARY

- 2.1 World Cerium-140 Demand (2021-2032)
- 2.2 World Cerium-140 Consumption by Region
  - 2.2.1 World Cerium-140 Consumption by Region (2021-2026)
  - 2.2.2 World Cerium-140 Consumption Forecast by Region (2027-2032)
- 2.3 United States Cerium-140 Consumption (2021-2032)
- 2.4 China Cerium-140 Consumption (2021-2032)
- 2.5 Europe Cerium-140 Consumption (2021-2032)
- 2.6 Japan Cerium-140 Consumption (2021-2032)
- 2.7 South Korea Cerium-140 Consumption (2021-2032)
- 2.8 ASEAN Cerium-140 Consumption (2021-2032)
- 2.9 India Cerium-140 Consumption (2021-2032)

### 3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Cerium-140 Production Value by Manufacturer (2021-2026)
- 3.2 World Cerium-140 Production by Manufacturer (2021-2026)

### 3.3 World Cerium-140 Average Price by Manufacturer (2021-2026)

### 3.4 Cerium-140 Company Evaluation Quadrant

### 3.5 Industry Rank and Concentration Rate (CR)

#### 3.5.1 Global Cerium-140 Industry Rank of Major Manufacturers

#### 3.5.2 Global Concentration Ratios (CR4) for Cerium-140 in 2025

#### 3.5.3 Global Concentration Ratios (CR8) for Cerium-140 in 2025

### 3.6 Cerium-140 Market: Overall Company Footprint Analysis

#### 3.6.1 Cerium-140 Market: Region Footprint

#### 3.6.2 Cerium-140 Market: Company Product Type Footprint

#### 3.6.3 Cerium-140 Market: Company Product Application Footprint

### 3.7 Competitive Environment

#### 3.7.1 Historical Structure of the Industry

#### 3.7.2 Barriers of Market Entry

#### 3.7.3 Factors of Competition

### 3.8 New Entrant and Capacity Expansion Plans

### 3.9 Mergers, Acquisition, Agreements, and Collaborations

## **4 UNITED STATES VS CHINA VS REST OF THE WORLD**

### 4.1 United States VS China: Cerium-140 Production Value Comparison

#### 4.1.1 United States VS China: Cerium-140 Production Value Comparison (2021 & 2025 & 2032)

#### 4.1.2 United States VS China: Cerium-140 Production Value Market Share Comparison (2021 & 2025 & 2032)

### 4.2 United States VS China: Cerium-140 Production Comparison

#### 4.2.1 United States VS China: Cerium-140 Production Comparison (2021 & 2025 & 2032)

#### 4.2.2 United States VS China: Cerium-140 Production Market Share Comparison (2021 & 2025 & 2032)

### 4.3 United States VS China: Cerium-140 Consumption Comparison

#### 4.3.1 United States VS China: Cerium-140 Consumption Comparison (2021 & 2025 & 2032)

#### 4.3.2 United States VS China: Cerium-140 Consumption Market Share Comparison (2021 & 2025 & 2032)

### 4.4 United States Based Cerium-140 Manufacturers and Market Share, 2021-2026

#### 4.4.1 United States Based Cerium-140 Manufacturers, Headquarters and Production Site (States, Country)

#### 4.4.2 United States Based Manufacturers Cerium-140 Production Value (2021-2026)

#### 4.4.3 United States Based Manufacturers Cerium-140 Production (2021-2026)

#### 4.5 China Based Cerium-140 Manufacturers and Market Share

4.5.1 China Based Cerium-140 Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Cerium-140 Production Value (2021-2026)

4.5.3 China Based Manufacturers Cerium-140 Production (2021-2026)

#### 4.6 Rest of World Based Cerium-140 Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Cerium-140 Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Cerium-140 Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Cerium-140 Production (2021-2026)

### 5 MARKET ANALYSIS BY TYPE

#### 5.1 World Cerium-140 Market Size Overview by Type: 2021 VS 2025 VS 2032

#### 5.2 Segment Introduction by Type

5.2.1 Reactor Irradiation Production

5.2.2 Accelerator Synthesis

5.2.3 Others

#### 5.3 Market Segment by Type

5.3.1 World Cerium-140 Production by Type (2021-2032)

5.3.2 World Cerium-140 Production Value by Type (2021-2032)

5.3.3 World Cerium-140 Average Price by Type (2021-2032)

### 6 MARKET ANALYSIS BY ISOTOPIC ENRICHMENT

#### 6.1 World Cerium-140 Market Size Overview by Isotopic Enrichment: 2021 VS 2025 VS 2032

#### 6.2 Segment Introduction by Isotopic Enrichment

6.2.1 Primary Enrichment (>90%–95%)

6.2.2 High Enrichment (>95%–99%)

6.2.3 Ultra-high Enrichment (>99%)

#### 6.3 Market Segment by Isotopic Enrichment

6.3.1 World Cerium-140 Production by Isotopic Enrichment (2021-2032)

6.3.2 World Cerium-140 Production Value by Isotopic Enrichment (2021-2032)

6.3.3 World Cerium-140 Average Price by Isotopic Enrichment (2021-2032)

### 7 MARKET ANALYSIS BY CHEMICAL FORM

#### 7.1 World Cerium-140 Market Size Overview by Chemical Form: 2021 VS 2025 VS

2032

## 7.2 Segment Introduction by Chemical Form

7.2.1 Cerium-140 Oxide

7.2.2 Cerium-140 Metal

7.2.3 Cerium-140 Salts

7.2.4 Cerium-140 Solution

## 7.3 Market Segment by Chemical Form

7.3.1 World Cerium-140 Production by Chemical Form (2021-2032)

7.3.2 World Cerium-140 Production Value by Chemical Form (2021-2032)

7.3.3 World Cerium-140 Average Price by Chemical Form (2021-2032)

# 8 MARKET ANALYSIS BY CHEMICAL PURITY

## 8.1 World Cerium-140 Market Size Overview by Chemical Purity: 2021 VS 2025 VS 2032

## 8.2 Segment Introduction by Chemical Purity

8.2.1 3N

8.2.2 4N

8.2.3 5N

8.2.4 Others

## 8.3 Market Segment by Chemical Purity

8.3.1 World Cerium-140 Production by Chemical Purity (2021-2032)

8.3.2 World Cerium-140 Production Value by Chemical Purity (2021-2032)

8.3.3 World Cerium-140 Average Price by Chemical Purity (2021-2032)

# 9 MARKET ANALYSIS BY APPLICATION

## 9.1 World Cerium-140 Market Size Overview by Application: 2021 VS 2025 VS 2032

## 9.2 Segment Introduction by Application

9.2.1 Nuclear Medicine

9.2.2 Industrial Tracer

9.2.3 Scientific Research

## 9.3 Market Segment by Application

9.3.1 World Cerium-140 Production by Application (2021-2032)

9.3.2 World Cerium-140 Production Value by Application (2021-2032)

9.3.3 World Cerium-140 Average Price by Application (2021-2032)

# 10 COMPANY PROFILES

## 10.1 Rosatom

### 10.1.1 Rosatom Details

### 10.1.2 Rosatom Major Business

### 10.1.3 Rosatom Cerium-140 Product and Services

### 10.1.4 Rosatom Cerium-140 Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 10.1.5 Rosatom Recent Developments/Updates

### 10.1.6 Rosatom Competitive Strengths & Weaknesses

## 10.2 ORNL

### 10.2.1 ORNL Details

### 10.2.2 ORNL Major Business

### 10.2.3 ORNL Cerium-140 Product and Services

### 10.2.4 ORNL Cerium-140 Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 10.2.5 ORNL Recent Developments/Updates

### 10.2.6 ORNL Competitive Strengths & Weaknesses

## 10.3 CIAE

### 10.3.1 CIAE Details

### 10.3.2 CIAE Major Business

### 10.3.3 CIAE Cerium-140 Product and Services

### 10.3.4 CIAE Cerium-140 Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 10.3.5 CIAE Recent Developments/Updates

### 10.3.6 CIAE Competitive Strengths & Weaknesses

## 10.4 LANL

### 10.4.1 LANL Details

### 10.4.2 LANL Major Business

### 10.4.3 LANL Cerium-140 Product and Services

### 10.4.4 LANL Cerium-140 Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 10.4.5 LANL Recent Developments/Updates

### 10.4.6 LANL Competitive Strengths & Weaknesses

## 10.5 Institute for Transuranium Elements

### 10.5.1 Institute for Transuranium Elements Details

### 10.5.2 Institute for Transuranium Elements Major Business

### 10.5.3 Institute for Transuranium Elements Cerium-140 Product and Services

### 10.5.4 Institute for Transuranium Elements Cerium-140 Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 10.5.5 Institute for Transuranium Elements Recent Developments/Updates

- 10.5.6 Institute for Transuranium Elements Competitive Strengths & Weaknesses
- 10.6 Neonest AB(BuyIsotope)
  - 10.6.1 Neonest AB(BuyIsotope) Details
  - 10.6.2 Neonest AB(BuyIsotope) Major Business
  - 10.6.3 Neonest AB(BuyIsotope) Cerium-140 Product and Services
  - 10.6.4 Neonest AB(BuyIsotope) Cerium-140 Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 10.6.5 Neonest AB(BuyIsotope) Recent Developments/Updates
  - 10.6.6 Neonest AB(BuyIsotope) Competitive Strengths & Weaknesses
- 10.7 Trace Sciences International
  - 10.7.1 Trace Sciences International Details
  - 10.7.2 Trace Sciences International Major Business
  - 10.7.3 Trace Sciences International Cerium-140 Product and Services
  - 10.7.4 Trace Sciences International Cerium-140 Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 10.7.5 Trace Sciences International Recent Developments/Updates
  - 10.7.6 Trace Sciences International Competitive Strengths & Weaknesses
- 10.8 CortecNet
  - 10.8.1 CortecNet Details
  - 10.8.2 CortecNet Major Business
  - 10.8.3 CortecNet Cerium-140 Product and Services
  - 10.8.4 CortecNet Cerium-140 Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 10.8.5 CortecNet Recent Developments/Updates
  - 10.8.6 CortecNet Competitive Strengths & Weaknesses
- 10.9 American Elements
  - 10.9.1 American Elements Details
  - 10.9.2 American Elements Major Business
  - 10.9.3 American Elements Cerium-140 Product and Services
  - 10.9.4 American Elements Cerium-140 Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 10.9.5 American Elements Recent Developments/Updates
  - 10.9.6 American Elements Competitive Strengths & Weaknesses

## **11 INDUSTRY CHAIN ANALYSIS**

- 11.1 Cerium-140 Industry Chain
- 11.2 Cerium-140 Upstream Analysis
  - 11.2.1 Cerium-140 Core Raw Materials

- 11.2.2 Main Manufacturers of Cerium-140 Core Raw Materials
- 11.3 Midstream Analysis
- 11.4 Downstream Analysis
- 11.5 Cerium-140 Production Mode
- 11.6 Cerium-140 Procurement Model
- 11.7 Cerium-140 Industry Sales Model and Sales Channels
  - 11.7.1 Cerium-140 Sales Model
  - 11.7.2 Cerium-140 Typical Distributors

## **12 RESEARCH FINDINGS AND CONCLUSION**

## **13 APPENDIX**

- 13.1 Methodology
- 13.2 Research Process and Data Source
- 13.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. World Cerium-140 Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Cerium-140 Production Value by Region (2021-2026) & (USD Million)

Table 3. World Cerium-140 Production Value by Region (2027-2032) & (USD Million)

Table 4. World Cerium-140 Production Value Market Share by Region (2021-2026)

Table 5. World Cerium-140 Production Value Market Share by Region (2027-2032)

Table 6. World Cerium-140 Production by Region (2021-2026) & (Gram)

Table 7. World Cerium-140 Production by Region (2027-2032) & (Gram)

Table 8. World Cerium-140 Production Market Share by Region (2021-2026)

Table 9. World Cerium-140 Production Market Share by Region (2027-2032)

Table 10. World Cerium-140 Average Price by Region (2021-2026) & (US\$/g)

Table 11. World Cerium-140 Average Price by Region (2027-2032) & (US\$/g)

Table 12. Cerium-140 Major Market Trends

Table 13. World Cerium-140 Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Gram)

Table 14. World Cerium-140 Consumption by Region (2021-2026) & (Gram)

Table 15. World Cerium-140 Consumption Forecast by Region (2027-2032) & (Gram)

Table 16. World Cerium-140 Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Cerium-140 Producers in 2025

Table 18. World Cerium-140 Production by Manufacturer (2021-2026) & (Gram)

Table 19. Production Market Share of Key Cerium-140 Producers in 2025

Table 20. World Cerium-140 Average Price by Manufacturer (2021-2026) & (US\$/g)

Table 21. Global Cerium-140 Company Evaluation Quadrant

Table 22. World Cerium-140 Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Cerium-140 Production Site of Key Manufacturer

Table 24. Cerium-140 Market: Company Product Type Footprint

Table 25. Cerium-140 Market: Company Product Application Footprint

Table 26. Cerium-140 Competitive Factors

Table 27. Cerium-140 New Entrant and Capacity Expansion Plans

Table 28. Cerium-140 Mergers & Acquisitions Activity

Table 29. United States VS China Cerium-140 Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Cerium-140 Production Comparison, (2021 & 2025 &

2032) & (Gram)

Table 31. United States VS China Cerium-140 Consumption Comparison, (2021 & 2025 & 2032) & (Gram)

Table 32. United States Based Cerium-140 Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Cerium-140 Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Cerium-140 Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Cerium-140 Production (2021-2026) & (Gram)

Table 36. United States Based Manufacturers Cerium-140 Production Market Share (2021-2026)

Table 37. China Based Cerium-140 Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Cerium-140 Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Cerium-140 Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Cerium-140 Production, (2021-2026) & (Gram)

Table 41. China Based Manufacturers Cerium-140 Production Market Share (2021-2026)

Table 42. Rest of World Based Cerium-140 Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Cerium-140 Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Cerium-140 Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Cerium-140 Production, (2021-2026) & (Gram)

Table 46. Rest of World Based Manufacturers Cerium-140 Production Market Share (2021-2026)

Table 47. World Cerium-140 Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Cerium-140 Production by Type (2021-2026) & (Gram)

Table 49. World Cerium-140 Production by Type (2027-2032) & (Gram)

Table 50. World Cerium-140 Production Value by Type (2021-2026) & (USD Million)

Table 51. World Cerium-140 Production Value by Type (2027-2032) & (USD Million)

Table 52. World Cerium-140 Average Price by Type (2021-2026) & (US\$/g)

Table 53. World Cerium-140 Average Price by Type (2027-2032) & (US\$/g)

Table 54. World Cerium-140 Production Value by Isotopic Enrichment, (USD Million), 2021 & 2025 & 2032

Table 55. World Cerium-140 Production by Isotopic Enrichment (2021-2026) & (Gram)

Table 56. World Cerium-140 Production by Isotopic Enrichment (2027-2032) & (Gram)

Table 57. World Cerium-140 Production Value by Isotopic Enrichment (2021-2026) & (USD Million)

Table 58. World Cerium-140 Production Value by Isotopic Enrichment (2027-2032) & (USD Million)

Table 59. World Cerium-140 Average Price by Isotopic Enrichment (2021-2026) & (US\$/g)

Table 60. World Cerium-140 Average Price by Isotopic Enrichment (2027-2032) & (US\$/g)

Table 61. World Cerium-140 Production Value by Chemical Form, (USD Million), 2021 & 2025 & 2032

Table 62. World Cerium-140 Production by Chemical Form (2021-2026) & (Gram)

Table 63. World Cerium-140 Production by Chemical Form (2027-2032) & (Gram)

Table 64. World Cerium-140 Production Value by Chemical Form (2021-2026) & (USD Million)

Table 65. World Cerium-140 Production Value by Chemical Form (2027-2032) & (USD Million)

Table 66. World Cerium-140 Average Price by Chemical Form (2021-2026) & (US\$/g)

Table 67. World Cerium-140 Average Price by Chemical Form (2027-2032) & (US\$/g)

Table 68. World Cerium-140 Production Value by Chemical Purity, (USD Million), 2021 & 2025 & 2032

Table 69. World Cerium-140 Production by Chemical Purity (2021-2026) & (Gram)

Table 70. World Cerium-140 Production by Chemical Purity (2027-2032) & (Gram)

Table 71. World Cerium-140 Production Value by Chemical Purity (2021-2026) & (USD Million)

Table 72. World Cerium-140 Production Value by Chemical Purity (2027-2032) & (USD Million)

Table 73. World Cerium-140 Average Price by Chemical Purity (2021-2026) & (US\$/g)

Table 74. World Cerium-140 Average Price by Chemical Purity (2027-2032) & (US\$/g)

Table 75. World Cerium-140 Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 76. World Cerium-140 Production by Application (2021-2026) & (Gram)

Table 77. World Cerium-140 Production by Application (2027-2032) & (Gram)

Table 78. World Cerium-140 Production Value by Application (2021-2026) & (USD Million)

Table 79. World Cerium-140 Production Value by Application (2027-2032) & (USD Million)

Table 80. World Cerium-140 Average Price by Application (2021-2026) & (US\$/g)

Table 81. World Cerium-140 Average Price by Application (2027-2032) & (US\$/g)

Table 82. Rosatom Basic Information, Manufacturing Base and Competitors

Table 83. Rosatom Major Business

Table 84. Rosatom Cerium-140 Product and Services

Table 85. Rosatom Cerium-140 Production (Gram), Price (US\$/g), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 86. Rosatom Recent Developments/Updates

Table 87. Rosatom Competitive Strengths & Weaknesses

Table 88. ORNL Basic Information, Manufacturing Base and Competitors

Table 89. ORNL Major Business

Table 90. ORNL Cerium-140 Product and Services

Table 91. ORNL Cerium-140 Production (Gram), Price (US\$/g), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 92. ORNL Recent Developments/Updates

Table 93. ORNL Competitive Strengths & Weaknesses

Table 94. CIAE Basic Information, Manufacturing Base and Competitors

Table 95. CIAE Major Business

Table 96. CIAE Cerium-140 Product and Services

Table 97. CIAE Cerium-140 Production (Gram), Price (US\$/g), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 98. CIAE Recent Developments/Updates

Table 99. CIAE Competitive Strengths & Weaknesses

Table 100. LANL Basic Information, Manufacturing Base and Competitors

Table 101. LANL Major Business

Table 102. LANL Cerium-140 Product and Services

Table 103. LANL Cerium-140 Production (Gram), Price (US\$/g), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 104. LANL Recent Developments/Updates

Table 105. LANL Competitive Strengths & Weaknesses

Table 106. Institute for Transuranium Elements Basic Information, Manufacturing Base and Competitors

Table 107. Institute for Transuranium Elements Major Business

Table 108. Institute for Transuranium Elements Cerium-140 Product and Services

Table 109. Institute for Transuranium Elements Cerium-140 Production (Gram), Price (US\$/g), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 110. Institute for Transuranium Elements Recent Developments/Updates

Table 111. Institute for Transuranium Elements Competitive Strengths & Weaknesses

Table 112. Neonest AB(Buylsotope) Basic Information, Manufacturing Base and Competitors

Table 113. Neonest AB(Buylsotope) Major Business

Table 114. Neonest AB(Buylsotope) Cerium-140 Product and Services

Table 115. Neonest AB(Buylsotope) Cerium-140 Production (Gram), Price (US\$/g), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 116. Neonest AB(Buylsotope) Recent Developments/Updates

Table 117. Neonest AB(Buylsotope) Competitive Strengths & Weaknesses

Table 118. Trace Sciences International Basic Information, Manufacturing Base and Competitors

Table 119. Trace Sciences International Major Business

Table 120. Trace Sciences International Cerium-140 Product and Services

Table 121. Trace Sciences International Cerium-140 Production (Gram), Price (US\$/g), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 122. Trace Sciences International Recent Developments/Updates

Table 123. Trace Sciences International Competitive Strengths & Weaknesses

Table 124. CortecNet Basic Information, Manufacturing Base and Competitors

Table 125. CortecNet Major Business

Table 126. CortecNet Cerium-140 Product and Services

Table 127. CortecNet Cerium-140 Production (Gram), Price (US\$/g), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 128. CortecNet Recent Developments/Updates

Table 129. CortecNet Competitive Strengths & Weaknesses

Table 130. American Elements Basic Information, Manufacturing Base and Competitors

Table 131. American Elements Major Business

Table 132. American Elements Cerium-140 Product and Services

Table 133. American Elements Cerium-140 Production (Gram), Price (US\$/g), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 134. American Elements Recent Developments/Updates

Table 135. American Elements Competitive Strengths & Weaknesses

Table 136. Global Key Players of Cerium-140 Upstream (Raw Materials)

Table 137. Global Cerium-140 Typical Customers

Table 138. Cerium-140 Typical Distributors

## List Of Figures

### LIST OF FIGURES

Figure 1. Cerium-140 Picture

Figure 2. World Cerium-140 Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Cerium-140 Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Cerium-140 Production (2021-2032) & (Gram)

Figure 5. World Cerium-140 Average Price (2021-2032) & (US\$/g)

Figure 6. World Cerium-140 Production Value Market Share by Region (2021-2032)

Figure 7. World Cerium-140 Production Market Share by Region (2021-2032)

Figure 8. North America Cerium-140 Production (2021-2032) & (Gram)

Figure 9. Europe Cerium-140 Production (2021-2032) & (Gram)

Figure 10. China Cerium-140 Production (2021-2032) & (Gram)

Figure 11. Cerium-140 Market Drivers

Figure 12. Factors Affecting Demand

Figure 13. World Cerium-140 Consumption (2021-2032) & (Gram)

Figure 14. World Cerium-140 Consumption Market Share by Region (2021-2032)

Figure 15. United States Cerium-140 Consumption (2021-2032) & (Gram)

Figure 16. China Cerium-140 Consumption (2021-2032) & (Gram)

Figure 17. Europe Cerium-140 Consumption (2021-2032) & (Gram)

Figure 18. Japan Cerium-140 Consumption (2021-2032) & (Gram)

Figure 19. South Korea Cerium-140 Consumption (2021-2032) & (Gram)

Figure 20. ASEAN Cerium-140 Consumption (2021-2032) & (Gram)

Figure 21. India Cerium-140 Consumption (2021-2032) & (Gram)

Figure 22. Producer Shipments of Cerium-140 by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 23. Global Four-firm Concentration Ratios (CR4) for Cerium-140 Markets in 2025

Figure 24. Global Four-firm Concentration Ratios (CR8) for Cerium-140 Markets in 2025

Figure 25. United States VS China: Cerium-140 Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 26. United States VS China: Cerium-140 Production Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Cerium-140 Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States Based Manufacturers Cerium-140 Production Market Share 2025

Figure 29. China Based Manufacturers Cerium-140 Production Market Share 2025

Figure 30. Rest of World Based Manufacturers Cerium-140 Production Market Share 2025

Figure 31. World Cerium-140 Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 32. World Cerium-140 Production Value Market Share by Type in 2025

Figure 33. Reactor Irradiation Production

Figure 34. Accelerator Synthesis

Figure 35. Others

Figure 36. World Cerium-140 Production Market Share by Type (2021-2032)

Figure 37. World Cerium-140 Production Value Market Share by Type (2021-2032)

Figure 38. World Cerium-140 Average Price by Type (2021-2032) & (US\$/g)

Figure 39. World Cerium-140 Production Value by Isotopic Enrichment, (USD Million), 2021 & 2025 & 2032

Figure 40. World Cerium-140 Production Value Market Share by Isotopic Enrichment in 2025

Figure 41. Primary Enrichment (>90%–95%)

Figure 42. High Enrichment (>95%–99%)

Figure 43. Ultra-high Enrichment (>99%)

Figure 44. World Cerium-140 Production Market Share by Isotopic Enrichment (2021-2032)

Figure 45. World Cerium-140 Production Value Market Share by Isotopic Enrichment (2021-2032)

Figure 46. World Cerium-140 Average Price by Isotopic Enrichment (2021-2032) & (US\$/g)

Figure 47. World Cerium-140 Production Value by Chemical Form, (USD Million), 2021 & 2025 & 2032

Figure 48. World Cerium-140 Production Value Market Share by Chemical Form in 2025

Figure 49. Cerium-140 Oxide

Figure 50. Cerium-140 Metal

Figure 51. Cerium-140 Salts

Figure 52. Cerium-140 Solution

Figure 53. World Cerium-140 Production Market Share by Chemical Form (2021-2032)

Figure 54. World Cerium-140 Production Value Market Share by Chemical Form (2021-2032)

Figure 55. World Cerium-140 Average Price by Chemical Form (2021-2032) & (US\$/g)

Figure 56. World Cerium-140 Production Value by Chemical Purity, (USD Million), 2021 & 2025 & 2032

Figure 57. World Cerium-140 Production Value Market Share by Chemical Purity in

2025

Figure 58. 3N

Figure 59. 4N

Figure 60. 5N

Figure 61. Others

Figure 62. World Cerium-140 Production Market Share by Chemical Purity (2021-2032)

Figure 63. World Cerium-140 Production Value Market Share by Chemical Purity (2021-2032)

Figure 64. World Cerium-140 Average Price by Chemical Purity (2021-2032) & (US\$/g)

Figure 65. World Cerium-140 Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 66. World Cerium-140 Production Value Market Share by Application in 2025

Figure 67. Nuclear Medicine

Figure 68. Industrial Tracer

Figure 69. Scientific Research

Figure 70. World Cerium-140 Production Market Share by Application (2021-2032)

Figure 71. World Cerium-140 Production Value Market Share by Application (2021-2032)

Figure 72. World Cerium-140 Average Price by Application (2021-2032) & (US\$/g)

Figure 73. Cerium-140 Industry Chain

Figure 74. Cerium-140 Procurement Model

Figure 75. Cerium-140 Sales Model

Figure 76. Cerium-140 Sales Channels, Direct Sales, and Distribution

Figure 77. Methodology

Figure 78. Research Process and Data Source

## I would like to order

Product name: Global Cerium-140 Supply, Demand and Key Producers, 2026-2032

Product link: <https://marketpublishers.com/r/GBD84CA45281EN.html>

Price: US\$ 4,480.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/GBD84CA45281EN.html>