

Global Xenon-124 Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G0B2D3386E20EN.html>

Date: September 2026

Pages: 108

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

ID: G0B2D3386E20EN

Abstracts

The global Xenon-124 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 Xenon-124 production was approximately 2,200 grams, with an average global market price of around \$3,200 per gram. Total global production capacity for Xenon-124 reached 3,500 grams in 2025. The industry's average gross profit margin stood at 35%. Xenon-124 is a rare, naturally occurring isotope of xenon (atomic number 54, mass number 124); at room temperature, it exists as a colorless, odorless, and chemically inert gas. Its natural abundance is approximately 0.10%, so practical scientific and industrial applications typically require enrichment via cryogenic distillation, gas centrifugation, or other isotope separation processes. The U.S. National Isotope Development Center supplies gaseous xenon-124 with enrichment levels ranging from about 5% to 99%. Although historically classified as a stable isotope, the XENON1T experiment directly observed xenon-124 undergoing two-neutrino double electron capture to transform into tellurium-124, with a measured half-life of approximately 1.8×10^{22} years; thus, it can be treated as effectively stable within standard storage and production timeframes. Key applications for xenon-124 include serving as an enriched target gas for the production of iodine-123 and iodine-125, as well as use in research on double electron capture, neutrino properties, and rare nuclear decay.

The upstream segment of the industry chain encompasses air separation units (ASUs), crude xenon extraction, high-purity xenon refining, xenon isotope separation, and the manufacture of specialized gas containers. Natural xenon is a rare byproduct obtained during the production of oxygen and nitrogen in large-scale ASUs; due to its extremely low concentration in the atmosphere, it must be recovered from enriched streams within

the liquid oxygen production process and subsequently purified through adsorption, cryogenic distillation, and impurity removal. Since xenon-124 accounts for only about 0.10% of natural xenon, multi-stage isotope enrichment is required to achieve the high abundance levels necessary for medical radionuclide production or nuclear physics experiments. Barriers to upstream supply arise from the scarcity of natural xenon resources, the high energy consumption of separation processes, the limited number of isotope enrichment facilities, lengthy enrichment cycles, and stringent requirements for the storage and transport of high-purity gases. The price and supply capacity of xenon-124 depend not only on the demand for this specific isotope but also on the global operating rates of ASUs, the demand for standard xenon gas in sectors such as semiconductors and aerospace, and the scheduling of enrichment facilities. The midstream segment of the industry chain primarily encompasses the purification of enriched Xenon-124, target gas filling, closed-loop target systems, irradiation via accelerators or reactors, and the post-irradiation separation and purification of iodine radionuclides. A key application of Xenon-124 is as a gaseous target material in cyclotrons for Iodine-123 production; proton irradiation of enriched Xenon-124 generates the relevant precursor radionuclide, which is subsequently processed into Iodine-123 for SPECT diagnostics. Fully automated Xenon-124 gas target irradiation systems have been developed in published research to support the routine production of Iodine-123. Another established technical pathway involves neutron irradiation of Xenon-124 in a reactor—utilizing the $^{124}\text{Xe}(n,\gamma)^{125}\text{Xe}$ reaction to produce Xenon-125, which then decays into Iodine-125—for use in radioimmunoassays, experimental research, and certain brachytherapy products. Given the high value of enriched Xenon-124, midstream systems typically employ closed target chambers, gas compression, cryogenic trapping, and recycling units to minimize xenon loss during irradiation, transfer, and maintenance. Quality control focuses on isotopic abundance, chemical purity, oxygen and moisture content, radioactive impurities, target chamber airtightness, and recovery rates. The downstream segment of the industry chain primarily includes medical isotope production facilities, nuclear medicine pharmacies, hospitals, radiopharmaceutical companies, national laboratories, and underground rare-event detection projects. In the field of nuclear medicine, Xenon-124 is generally not administered directly to patients but serves as a crucial enriched target material for producing Iodine-123 and Iodine-125; Iodine-123 is primarily used for SPECT diagnostics of the thyroid, nervous system, and other organs, while Iodine-125 is utilized in applications such as scientific research tracers, *in vitro* testing, and sealed sources. In the field of nuclear physics, natural or enriched Xenon-124 is used to study double electron capture, nuclear structure, and neutrino properties; the direct observation of two-neutrino double electron capture by the XENON1T experiment demonstrated that large-scale, low-background liquid xenon detectors can be used not only to search for

dark matter but also to investigate extremely rare nuclear decay processes. Future downstream demand is expected to remain characterized by high-value, small-batch, and project-based requirements. Growth drivers will stem primarily from the security of medical iodine radionuclide supplies, technological upgrades in target gas recycling, and next-generation large-scale liquid xenon detection experiments, rather than the general industrial gas market.

The demand for the production of medical radionuclides such as Iodine-123 and Iodine-125 is the primary driver behind the development of the Xenon-124 industry. Enriched Xenon-124 serves as a gaseous target material; it can be used to produce high-purity Iodine-123 via proton irradiation in a cyclotron, or transformed into Xenon-125 through neutron capture, subsequently decaying into Iodine-125. Iodine-123 is primarily used in SPECT diagnostic imaging for the thyroid, nervous system, and heart, while Iodine-125 is utilized in scientific research tracers, *in vitro* testing, and certain sealed sources. Since xenon target gas can be recovered and reused, the demand for Xenon-124 is not solely determined by single-use consumption; rather, it is driven by the establishment of new medical isotope production lines, losses during target gas circulation, replenishment following purity degradation, and the creation of strategic safety stocks.

Due to its short half-life, Iodine-123 is unsuitable for long-distance stockpiling or centralized global distribution. Consequently, the regional development of cyclotrons and local radionuclide production capabilities necessitates a stable supply of recyclable enriched Xenon-124 target gas. Future factors—such as the expansion of hospital- or regional-level medical radionuclide centers, the diversification of critical isotope supply chains, and the establishment of national strategic reserves—are likely to transform Xenon-124 from a mere research material into a critical target material essential for supply security.

As the natural abundance of Xenon-124 is extremely low, commercial production requires multi-stage isotope separation, entailing significant equipment investment, energy consumption, and lengthy processing cycles. Future technological upgrades will focus on enhancing isotopic abundance and batch consistency, reducing impurities (such as oxygen and moisture), optimizing target gas compression and cryogenic trapping, and minimizing xenon loss during irradiation, transfer, and equipment maintenance. Given its high value and reusability, the market model is expected to shift from simple sales toward comprehensive services encompassing enriched gas leasing or sales, target gas filling, recovery and purification, isotopic abundance testing, and gas cylinder management.

Report Scope

This report studies the global Xenon-124 production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Xenon-124 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 Xenon-124 that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Xenon-124 total production and demand, 2021-2032, (Gram)

Global Xenon-124 total production value, 2021-2032, (USD Million)

Global Xenon-124 production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Gram), (based on production site)

Global Xenon-124 consumption by region & country, CAGR, 2021-2032 & (Gram)

U.S. VS China: Xenon-124 domestic production, consumption, key domestic manufacturers and share

Global Xenon-124 production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Gram)

Global Xenon-124 production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Gram)

Global Xenon-124 production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Gram)

This report profiles key players in the global Xenon-124 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, Urenco, Neonest AB, NIDC(DOE IP), RITVERC JSC, Clearsynth, China National Nuclear Corporation, 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 Xenon-124 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 Xenon-124 Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Xenon-124 Market, Segmentation by Type:

Purity: >99%

Purity: >98%

Global Xenon-124 Market, Segmentation by Isotopic Abundance:

Low-abundance Xenon-124

Medium-abundance Xenon-124

High-abundance Xenon-124

Global Xenon-124 Market, Segmentation by Product Form:

Enriched Xenon-124 Gas

Liquefied Xenon-124

Xenon-124 Isotope Gas Mixture

Global Xenon-124 Market, Segmentation by Production Method:

Separation and Enrichment from Natural Xenon

Recovery from Irradiated Material

Global Xenon-124 Market, Segmentation by Application:

Isotope Production

Scientific Research

Companies Profiled:

Rosatom

Urenco

Neonest AB

NIDC(DOE IP)

RITVERC JSC

Clearsynth

China National Nuclear Corporation

Key Questions Answered

1. How big is the global Xenon-124 market?
2. What is the demand of the global Xenon-124 market?
3. What is the year over year growth of the global Xenon-124 market?
4. What is the total value of the global Xenon-124 market?
5. Who are the Major Players in the global Xenon-124 market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Xenon-124 Introduction
- 1.2 World Xenon-124 Supply & Forecast
 - 1.2.1 World Xenon-124 Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Xenon-124 Production (2021-2032)
 - 1.2.3 World Xenon-124 Pricing Trends (2021-2032)
- 1.3 World Xenon-124 Production by Region (Based on Production Site)
 - 1.3.1 World Xenon-124 Production Value by Region (2021-2032)
 - 1.3.2 World Xenon-124 Production by Region (2021-2032)
 - 1.3.3 World Xenon-124 Average Price by Region (2021-2032)
 - 1.3.4 North America Xenon-124 Production (2021-2032)
 - 1.3.5 Europe Xenon-124 Production (2021-2032)
 - 1.3.6 China Xenon-124 Production (2021-2032)
 - 1.3.7 Japan Xenon-124 Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Xenon-124 Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Xenon-124 Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Xenon-124 Demand (2021-2032)
- 2.2 World Xenon-124 Consumption by Region
 - 2.2.1 World Xenon-124 Consumption by Region (2021-2026)
 - 2.2.2 World Xenon-124 Consumption Forecast by Region (2027-2032)
- 2.3 United States Xenon-124 Consumption (2021-2032)
- 2.4 China Xenon-124 Consumption (2021-2032)
- 2.5 Europe Xenon-124 Consumption (2021-2032)
- 2.6 Japan Xenon-124 Consumption (2021-2032)
- 2.7 South Korea Xenon-124 Consumption (2021-2032)
- 2.8 ASEAN Xenon-124 Consumption (2021-2032)
- 2.9 India Xenon-124 Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Xenon-124 Production Value by Manufacturer (2021-2026)

- 3.2 World Xenon-124 Production by Manufacturer (2021-2026)
- 3.3 World Xenon-124 Average Price by Manufacturer (2021-2026)
- 3.4 Xenon-124 Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Xenon-124 Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Xenon-124 in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Xenon-124 in 2025
- 3.6 Xenon-124 Market: Overall Company Footprint Analysis
 - 3.6.1 Xenon-124 Market: Region Footprint
 - 3.6.2 Xenon-124 Market: Company Product Type Footprint
 - 3.6.3 Xenon-124 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: Xenon-124 Production Value Comparison
 - 4.1.1 United States VS China: Xenon-124 Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Xenon-124 Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Xenon-124 Production Comparison
 - 4.2.1 United States VS China: Xenon-124 Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Xenon-124 Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Xenon-124 Consumption Comparison
 - 4.3.1 United States VS China: Xenon-124 Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Xenon-124 Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Xenon-124 Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based Xenon-124 Manufacturers, Headquarters and Production Site (States, Country)
 - 4.4.2 United States Based Manufacturers Xenon-124 Production Value (2021-2026)

- 4.4.3 United States Based Manufacturers Xenon-124 Production (2021-2026)
- 4.5 China Based Xenon-124 Manufacturers and Market Share
 - 4.5.1 China Based Xenon-124 Manufacturers, Headquarters and Production Site (Province, Country)
 - 4.5.2 China Based Manufacturers Xenon-124 Production Value (2021-2026)
 - 4.5.3 China Based Manufacturers Xenon-124 Production (2021-2026)
- 4.6 Rest of World Based Xenon-124 Manufacturers and Market Share, 2021-2026
 - 4.6.1 Rest of World Based Xenon-124 Manufacturers, Headquarters and Production Site (State, Country)
 - 4.6.2 Rest of World Based Manufacturers Xenon-124 Production Value (2021-2026)
 - 4.6.3 Rest of World Based Manufacturers Xenon-124 Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

- 5.1 World Xenon-124 Market Size Overview by Type: 2021 VS 2025 VS 2032
- 5.2 Segment Introduction by Type
 - 5.2.1 Purity: >99%
 - 5.2.2 Purity: >98%
- 5.3 Market Segment by Type
 - 5.3.1 World Xenon-124 Production by Type (2021-2032)
 - 5.3.2 World Xenon-124 Production Value by Type (2021-2032)
 - 5.3.3 World Xenon-124 Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY ISOTOPIC ABUNDANCE

- 6.1 World Xenon-124 Market Size Overview by Isotopic Abundance: 2021 VS 2025 VS 2032
- 6.2 Segment Introduction by Isotopic Abundance
 - 6.2.1 Low-abundance Xenon-124
 - 6.2.2 Medium-abundance Xenon-124
 - 6.2.3 High-abundance Xenon-124
- 6.3 Market Segment by Isotopic Abundance
 - 6.3.1 World Xenon-124 Production by Isotopic Abundance (2021-2032)
 - 6.3.2 World Xenon-124 Production Value by Isotopic Abundance (2021-2032)
 - 6.3.3 World Xenon-124 Average Price by Isotopic Abundance (2021-2032)

7 MARKET ANALYSIS BY PRODUCT FORM

- 7.1 World Xenon-124 Market Size Overview by Product Form: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Product Form

7.2.1 Enriched Xenon-124 Gas

7.2.2 Liquefied Xenon-124

7.2.3 Xenon-124 Isotope Gas Mixture

7.3 Market Segment by Product Form

7.3.1 World Xenon-124 Production by Product Form (2021-2032)

7.3.2 World Xenon-124 Production Value by Product Form (2021-2032)

7.3.3 World Xenon-124 Average Price by Product Form (2021-2032)

8 MARKET ANALYSIS BY PRODUCTION METHOD

8.1 World Xenon-124 Market Size Overview by Production Method: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Production Method

8.2.1 Separation and Enrichment from Natural Xenon

8.2.2 Recovery from Irradiated Material

8.3 Market Segment by Production Method

8.3.1 World Xenon-124 Production by Production Method (2021-2032)

8.3.2 World Xenon-124 Production Value by Production Method (2021-2032)

8.3.3 World Xenon-124 Average Price by Production Method (2021-2032)

9 MARKET ANALYSIS BY APPLICATION

9.1 World Xenon-124 Market Size Overview by Application: 2021 VS 2025 VS 2032

9.2 Segment Introduction by Application

9.2.1 Isotope Production

9.2.2 Scientific Research

9.3 Market Segment by Application

9.3.1 World Xenon-124 Production by Application (2021-2032)

9.3.2 World Xenon-124 Production Value by Application (2021-2032)

9.3.3 World Xenon-124 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 Xenon-124 Product and Services

10.1.4 Rosatom Xenon-124 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 Urenco

10.2.1 Urenco Details

10.2.2 Urenco Major Business

10.2.3 Urenco Xenon-124 Product and Services

10.2.4 Urenco Xenon-124 Production, Price, Value, Gross Margin and Market Share

(2021-2026)

10.2.5 Urenco Recent Developments/Updates

10.2.6 Urenco Competitive Strengths & Weaknesses

10.3 Neonest AB

10.3.1 Neonest AB Details

10.3.2 Neonest AB Major Business

10.3.3 Neonest AB Xenon-124 Product and Services

10.3.4 Neonest AB Xenon-124 Production, Price, Value, Gross Margin and Market

Share (2021-2026)

10.3.5 Neonest AB Recent Developments/Updates

10.3.6 Neonest AB Competitive Strengths & Weaknesses

10.4 NIDC(DOE IP)

10.4.1 NIDC(DOE IP) Details

10.4.2 NIDC(DOE IP) Major Business

10.4.3 NIDC(DOE IP) Xenon-124 Product and Services

10.4.4 NIDC(DOE IP) Xenon-124 Production, Price, Value, Gross Margin and Market

Share (2021-2026)

10.4.5 NIDC(DOE IP) Recent Developments/Updates

10.4.6 NIDC(DOE IP) Competitive Strengths & Weaknesses

10.5 RITVERC JSC

10.5.1 RITVERC JSC Details

10.5.2 RITVERC JSC Major Business

10.5.3 RITVERC JSC Xenon-124 Product and Services

10.5.4 RITVERC JSC Xenon-124 Production, Price, Value, Gross Margin and Market

Share (2021-2026)

10.5.5 RITVERC JSC Recent Developments/Updates

10.5.6 RITVERC JSC Competitive Strengths & Weaknesses

10.6 Clearsynth

10.6.1 Clearsynth Details

10.6.2 Clearsynth Major Business

10.6.3 Clearsynth Xenon-124 Product and Services

10.6.4 Clearsynth Xenon-124 Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.6.5 Clearsynth Recent Developments/Updates

10.6.6 Clearsynth Competitive Strengths & Weaknesses

10.7 China National Nuclear Corporation

10.7.1 China National Nuclear Corporation Details

10.7.2 China National Nuclear Corporation Major Business

10.7.3 China National Nuclear Corporation Xenon-124 Product and Services

10.7.4 China National Nuclear Corporation Xenon-124 Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.7.5 China National Nuclear Corporation Recent Developments/Updates

10.7.6 China National Nuclear Corporation Competitive Strengths & Weaknesses

11 INDUSTRY CHAIN ANALYSIS

11.1 Xenon-124 Industry Chain

11.2 Xenon-124 Upstream Analysis

11.2.1 Xenon-124 Core Raw Materials

11.2.2 Main Manufacturers of Xenon-124 Core Raw Materials

11.3 Midstream Analysis

11.4 Downstream Analysis

11.5 Xenon-124 Production Mode

11.6 Xenon-124 Procurement Model

11.7 Xenon-124 Industry Sales Model and Sales Channels

11.7.1 Xenon-124 Sales Model

11.7.2 Xenon-124 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 Xenon-124 Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Xenon-124 Production Value by Region (2021-2026) & (USD Million)

Table 3. World Xenon-124 Production Value by Region (2027-2032) & (USD Million)

Table 4. World Xenon-124 Production Value Market Share by Region (2021-2026)

Table 5. World Xenon-124 Production Value Market Share by Region (2027-2032)

Table 6. World Xenon-124 Production by Region (2021-2026) & (Gram)

Table 7. World Xenon-124 Production by Region (2027-2032) & (Gram)

Table 8. World Xenon-124 Production Market Share by Region (2021-2026)

Table 9. World Xenon-124 Production Market Share by Region (2027-2032)

Table 10. World Xenon-124 Average Price by Region (2021-2026) & (US\$/g)

Table 11. World Xenon-124 Average Price by Region (2027-2032) & (US\$/g)

Table 12. Xenon-124 Major Market Trends

Table 13. World Xenon-124 Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Gram)

Table 14. World Xenon-124 Consumption by Region (2021-2026) & (Gram)

Table 15. World Xenon-124 Consumption Forecast by Region (2027-2032) & (Gram)

Table 16. World Xenon-124 Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Xenon-124 Producers in 2025

Table 18. World Xenon-124 Production by Manufacturer (2021-2026) & (Gram)

Table 19. Production Market Share of Key Xenon-124 Producers in 2025

Table 20. World Xenon-124 Average Price by Manufacturer (2021-2026) & (US\$/g)

Table 21. Global Xenon-124 Company Evaluation Quadrant

Table 22. World Xenon-124 Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Xenon-124 Production Site of Key Manufacturer

Table 24. Xenon-124 Market: Company Product Type Footprint

Table 25. Xenon-124 Market: Company Product Application Footprint

Table 26. Xenon-124 Competitive Factors

Table 27. Xenon-124 New Entrant and Capacity Expansion Plans

Table 28. Xenon-124 Mergers & Acquisitions Activity

Table 29. United States VS China Xenon-124 Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Xenon-124 Production Comparison, (2021 & 2025 &

2032) & (Gram)

Table 31. United States VS China Xenon-124 Consumption Comparison, (2021 & 2025 & 2032) & (Gram)

Table 32. United States Based Xenon-124 Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Xenon-124 Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Xenon-124 Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Xenon-124 Production (2021-2026) & (Gram)

Table 36. United States Based Manufacturers Xenon-124 Production Market Share (2021-2026)

Table 37. China Based Xenon-124 Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Xenon-124 Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Xenon-124 Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Xenon-124 Production, (2021-2026) & (Gram)

Table 41. China Based Manufacturers Xenon-124 Production Market Share (2021-2026)

Table 42. Rest of World Based Xenon-124 Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Xenon-124 Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Xenon-124 Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Xenon-124 Production, (2021-2026) & (Gram)

Table 46. Rest of World Based Manufacturers Xenon-124 Production Market Share (2021-2026)

Table 47. World Xenon-124 Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Xenon-124 Production by Type (2021-2026) & (Gram)

Table 49. World Xenon-124 Production by Type (2027-2032) & (Gram)

Table 50. World Xenon-124 Production Value by Type (2021-2026) & (USD Million)

Table 51. World Xenon-124 Production Value by Type (2027-2032) & (USD Million)

Table 52. World Xenon-124 Average Price by Type (2021-2026) & (US\$/g)

Table 53. World Xenon-124 Average Price by Type (2027-2032) & (US\$/g)
Table 54. World Xenon-124 Production Value by Isotopic Abundance, (USD Million), 2021 & 2025 & 2032
Table 55. World Xenon-124 Production by Isotopic Abundance (2021-2026) & (Gram)
Table 56. World Xenon-124 Production by Isotopic Abundance (2027-2032) & (Gram)
Table 57. World Xenon-124 Production Value by Isotopic Abundance (2021-2026) & (USD Million)
Table 58. World Xenon-124 Production Value by Isotopic Abundance (2027-2032) & (USD Million)
Table 59. World Xenon-124 Average Price by Isotopic Abundance (2021-2026) & (US\$/g)
Table 60. World Xenon-124 Average Price by Isotopic Abundance (2027-2032) & (US\$/g)
Table 61. World Xenon-124 Production Value by Product Form, (USD Million), 2021 & 2025 & 2032
Table 62. World Xenon-124 Production by Product Form (2021-2026) & (Gram)
Table 63. World Xenon-124 Production by Product Form (2027-2032) & (Gram)
Table 64. World Xenon-124 Production Value by Product Form (2021-2026) & (USD Million)
Table 65. World Xenon-124 Production Value by Product Form (2027-2032) & (USD Million)
Table 66. World Xenon-124 Average Price by Product Form (2021-2026) & (US\$/g)
Table 67. World Xenon-124 Average Price by Product Form (2027-2032) & (US\$/g)
Table 68. World Xenon-124 Production Value by Production Method, (USD Million), 2021 & 2025 & 2032
Table 69. World Xenon-124 Production by Production Method (2021-2026) & (Gram)
Table 70. World Xenon-124 Production by Production Method (2027-2032) & (Gram)
Table 71. World Xenon-124 Production Value by Production Method (2021-2026) & (USD Million)
Table 72. World Xenon-124 Production Value by Production Method (2027-2032) & (USD Million)
Table 73. World Xenon-124 Average Price by Production Method (2021-2026) & (US\$/g)
Table 74. World Xenon-124 Average Price by Production Method (2027-2032) & (US\$/g)
Table 75. World Xenon-124 Production Value by Application, (USD Million), 2021 & 2025 & 2032
Table 76. World Xenon-124 Production by Application (2021-2026) & (Gram)
Table 77. World Xenon-124 Production by Application (2027-2032) & (Gram)

Table 78. World Xenon-124 Production Value by Application (2021-2026) & (USD Million)

Table 79. World Xenon-124 Production Value by Application (2027-2032) & (USD Million)

Table 80. World Xenon-124 Average Price by Application (2021-2026) & (US\$/g)

Table 81. World Xenon-124 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 Xenon-124 Product and Services

Table 85. Rosatom Xenon-124 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. Urenco Basic Information, Manufacturing Base and Competitors

Table 89. Urenco Major Business

Table 90. Urenco Xenon-124 Product and Services

Table 91. Urenco Xenon-124 Production (Gram), Price (US\$/g), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 92. Urenco Recent Developments/Updates

Table 93. Urenco Competitive Strengths & Weaknesses

Table 94. Neonest AB Basic Information, Manufacturing Base and Competitors

Table 95. Neonest AB Major Business

Table 96. Neonest AB Xenon-124 Product and Services

Table 97. Neonest AB Xenon-124 Production (Gram), Price (US\$/g), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 98. Neonest AB Recent Developments/Updates

Table 99. Neonest AB Competitive Strengths & Weaknesses

Table 100. NIDC(DOE IP) Basic Information, Manufacturing Base and Competitors

Table 101. NIDC(DOE IP) Major Business

Table 102. NIDC(DOE IP) Xenon-124 Product and Services

Table 103. NIDC(DOE IP) Xenon-124 Production (Gram), Price (US\$/g), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 104. NIDC(DOE IP) Recent Developments/Updates

Table 105. NIDC(DOE IP) Competitive Strengths & Weaknesses

Table 106. RITVERC JSC Basic Information, Manufacturing Base and Competitors

Table 107. RITVERC JSC Major Business

Table 108. RITVERC JSC Xenon-124 Product and Services

Table 109. RITVERC JSC Xenon-124 Production (Gram), Price (US\$/g), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 110. RITVERC JSC Recent Developments/Updates
Table 111. RITVERC JSC Competitive Strengths & Weaknesses
Table 112. Clearsynth Basic Information, Manufacturing Base and Competitors
Table 113. Clearsynth Major Business
Table 114. Clearsynth Xenon-124 Product and Services
Table 115. Clearsynth Xenon-124 Production (Gram), Price (US\$/g), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 116. Clearsynth Recent Developments/Updates
Table 117. Clearsynth Competitive Strengths & Weaknesses
Table 118. China National Nuclear Corporation Basic Information, Manufacturing Base and Competitors
Table 119. China National Nuclear Corporation Major Business
Table 120. China National Nuclear Corporation Xenon-124 Product and Services
Table 121. China National Nuclear Corporation Xenon-124 Production (Gram), Price (US\$/g), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 122. China National Nuclear Corporation Recent Developments/Updates
Table 123. China National Nuclear Corporation Competitive Strengths & Weaknesses
Table 124. Global Key Players of Xenon-124 Upstream (Raw Materials)
Table 125. Global Xenon-124 Typical Customers
Table 126. Xenon-124 Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Xenon-124 Picture

Figure 2. World Xenon-124 Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Xenon-124 Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Xenon-124 Production (2021-2032) & (Gram)

Figure 5. World Xenon-124 Average Price (2021-2032) & (US\$/g)

Figure 6. World Xenon-124 Production Value Market Share by Region (2021-2032)

Figure 7. World Xenon-124 Production Market Share by Region (2021-2032)

Figure 8. North America Xenon-124 Production (2021-2032) & (Gram)

Figure 9. Europe Xenon-124 Production (2021-2032) & (Gram)

Figure 10. China Xenon-124 Production (2021-2032) & (Gram)

Figure 11. Japan Xenon-124 Production (2021-2032) & (Gram)

Figure 12. Xenon-124 Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Xenon-124 Consumption (2021-2032) & (Gram)

Figure 15. World Xenon-124 Consumption Market Share by Region (2021-2032)

Figure 16. United States Xenon-124 Consumption (2021-2032) & (Gram)

Figure 17. China Xenon-124 Consumption (2021-2032) & (Gram)

Figure 18. Europe Xenon-124 Consumption (2021-2032) & (Gram)

Figure 19. Japan Xenon-124 Consumption (2021-2032) & (Gram)

Figure 20. South Korea Xenon-124 Consumption (2021-2032) & (Gram)

Figure 21. ASEAN Xenon-124 Consumption (2021-2032) & (Gram)

Figure 22. India Xenon-124 Consumption (2021-2032) & (Gram)

Figure 23. Producer Shipments of Xenon-124 by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Xenon-124 Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Xenon-124 Markets in 2025

Figure 26. United States VS China: Xenon-124 Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Xenon-124 Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Xenon-124 Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Xenon-124 Production Market Share 2025

Figure 30. China Based Manufacturers Xenon-124 Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Xenon-124 Production Market Share 2025

Figure 32. World Xenon-124 Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Xenon-124 Production Value Market Share by Type in 2025

Figure 34. Purity: >99%

Figure 35. Purity: >98%

Figure 36. World Xenon-124 Production Market Share by Type (2021-2032)

Figure 37. World Xenon-124 Production Value Market Share by Type (2021-2032)

Figure 38. World Xenon-124 Average Price by Type (2021-2032) & (US\$/g)

Figure 39. World Xenon-124 Production Value by Isotopic Abundance, (USD Million), 2021 & 2025 & 2032

Figure 40. World Xenon-124 Production Value Market Share by Isotopic Abundance in 2025

Figure 41. Low-abundance Xenon-124

Figure 42. Medium-abundance Xenon-124

Figure 43. High-abundance Xenon-124

Figure 44. World Xenon-124 Production Market Share by Isotopic Abundance (2021-2032)

Figure 45. World Xenon-124 Production Value Market Share by Isotopic Abundance (2021-2032)

Figure 46. World Xenon-124 Average Price by Isotopic Abundance (2021-2032) & (US\$/g)

Figure 47. World Xenon-124 Production Value by Product Form, (USD Million), 2021 & 2025 & 2032

Figure 48. World Xenon-124 Production Value Market Share by Product Form in 2025

Figure 49. Enriched Xenon-124 Gas

Figure 50. Liquefied Xenon-124

Figure 51. Xenon-124 Isotope Gas Mixture

Figure 52. World Xenon-124 Production Market Share by Product Form (2021-2032)

Figure 53. World Xenon-124 Production Value Market Share by Product Form (2021-2032)

Figure 54. World Xenon-124 Average Price by Product Form (2021-2032) & (US\$/g)

Figure 55. World Xenon-124 Production Value by Production Method, (USD Million), 2021 & 2025 & 2032

Figure 56. World Xenon-124 Production Value Market Share by Production Method in 2025

Figure 57. Separation and Enrichment from Natural Xenon

Figure 58. Recovery from Irradiated Material

Figure 59. World Xenon-124 Production Market Share by Production Method (2021-2032)

Figure 60. World Xenon-124 Production Value Market Share by Production Method (2021-2032)

Figure 61. World Xenon-124 Average Price by Production Method (2021-2032) & (US\$/g)

Figure 62. World Xenon-124 Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 63. World Xenon-124 Production Value Market Share by Application in 2025

Figure 64. Isotope Production

Figure 65. Scientific Research

Figure 66. World Xenon-124 Production Market Share by Application (2021-2032)

Figure 67. World Xenon-124 Production Value Market Share by Application (2021-2032)

Figure 68. World Xenon-124 Average Price by Application (2021-2032) & (US\$/g)

Figure 69. Xenon-124 Industry Chain

Figure 70. Xenon-124 Procurement Model

Figure 71. Xenon-124 Sales Model

Figure 72. Xenon-124 Sales Channels, Direct Sales, and Distribution

Figure 73. Methodology

Figure 74. Research Process and Data Source

I would like to order

Product name: Global Xenon-124 Supply, Demand and Key Producers, 2026-2032

Product link: <https://marketpublishers.com/r/G0B2D3386E20EN.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

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G0B2D3386E20EN.html>