

Global Iron-59 Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Iron-59 market size was valued at US\$ million in 2025 and is forecast to a readjusted size of US\$ million by 2032 with a CAGR of %during review period.

In 2025, global iron-59 production was approximately 180 grams, with an average global market price of approximately US\$0.85 million per gram. Total global iron-59 production capacity reached approximately 260 grams in 2025. The industry average gross margin for this product was approximately 58%. Iron-59 (^{59}Fe) is an artificially produced radioactive isotope of iron with an atomic number of 26 and a mass number of 59. Unlike naturally occurring stable iron isotopes (^{54}Fe , ^{56}Fe , ^{57}Fe , and ^{58}Fe), Iron-59 is mainly produced through nuclear reactions, such as neutron activation of Iron-58 (^{58}Fe) targets via the $^{58}\text{Fe}(n,\gamma)^{59}\text{Fe}$ reaction. With a half-life of approximately 44.5 days, Iron-59 undergoes beta-minus decay and emits characteristic radiation, making it valuable in life science research, medical studies, hematology, iron metabolism tracing, and nuclear chemistry applications. Since iron plays essential roles in hemoglobin synthesis, oxygen transport, and cellular metabolism, Iron-59 has long been used as an important radioactive tracer for studying iron absorption, transport, storage, and metabolic pathways.

The upstream segment of the Iron-59 industry mainly includes stable iron isotope materials, high-purity iron resources, nuclear reaction targets, and irradiation facility systems. Production of Iron-59 typically requires high-purity Iron-58 target materials, which are irradiated in research reactors or other neutron sources, followed by chemical separation, purification, and radioactive quality testing. Key upstream factors include stable isotope enrichment technology, target preparation processes, and nuclear facility capabilities. The availability of enriched Iron-58 directly affects production efficiency and

supply stability. Due to strict nuclear regulations, irradiation requirements, and specialized technical expertise, only a limited number of global facilities have stable Iron-59 production capabilities. The midstream segment mainly covers radionuclide production, radiochemical separation, purification, activity measurement, quality control, and specialized packaging and transportation services. Suppliers typically provide Iron-59 in different activity levels and chemical forms according to research requirements, such as Iron-59 chloride ($^{59}\text{FeCl}_3$) solutions, iron salt forms, or customized tracer products. Although Iron-59 has a relatively longer half-life compared with many medical radionuclides, radioactive decay still requires careful production scheduling, quality assurance systems, and specialized radioactive logistics. The major value-added capabilities in the midstream sector include production efficiency, radiochemical purity control, and technical support for scientific applications. The downstream applications of Iron-59 mainly focus on life science research, medical studies, hematology, nutrition research, and fundamental nuclear science. The most important application of Iron-59 is as an iron metabolism tracer, allowing researchers to study iron absorption, transportation, storage, and hemoglobin formation processes in biological systems. It is also used in anemia research, bone marrow function studies, and investigations of iron-related diseases. In addition, Iron-59 has applications in plant nutrition research, materials science, and nuclear chemistry experiments. In the future, with the development of precision life sciences, metabolic disease research, and isotope tracing technologies, demand for high-quality Iron-59 products is expected to remain stable, maintaining a small-volume, high-value, research-driven market structure.

The primary growth drivers of the Iron-59 industry come from the increasing demand for isotope tracing technologies in life sciences, medical research, and precision biology studies. Iron is an essential trace element involved in critical biological processes such as hemoglobin synthesis, oxygen transport, and cellular metabolism. Therefore, high-sensitivity tracing technologies have long been used in iron metabolism research. As a classic radioactive tracer, Iron-59 enables researchers to investigate iron absorption, transportation, storage, and utilization mechanisms, and is widely applied in anemia studies, nutritional metabolism research, bone marrow function studies, and animal model experiments. With deeper research into metabolic disorders, blood-related diseases, and nutrition-related conditions, demand for high-quality Iron-59 products from research institutions and biotechnology companies continues to grow steadily.

Advances in radionuclide production technologies and improvements in scientific infrastructure represent important factors supporting the development of the Iron-59 industry. Iron-59 is mainly produced through neutron activation of Iron-58 (^{58}Fe)

targets, and its supply capability depends on enriched Iron-58 availability, research reactor operation, radiochemical separation technologies, and quality control systems. In recent years, upgrades of research nuclear facilities and expansion of isotope production platforms have improved production efficiency and supply reliability. Meanwhile, developments in automated radiochemistry systems, precision activity measurement instruments, and standardized quality assurance processes have further enhanced the consistency and reliability of research-grade Iron-59 products.

In the future, the Iron-59 industry will continue to develop as a small-volume, high-value, research-driven isotope market. Since Iron-59 mainly serves fundamental life science research, it is unlikely to generate large-scale industrial demand. Instead, the market will remain focused on specialized supply for universities, research institutes, medical research centers, and biotechnology companies. Future growth opportunities will mainly come from precision medicine, metabolomics, nutrition science, isotope tracing technology innovation, and deeper studies of biological mechanisms. As research projects require higher analytical accuracy and tracer sensitivity, high-purity and high-specific-activity Iron-59 products will become increasingly important.

This report is a detailed and comprehensive analysis for global Iron-59 market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Iron-59 market size and forecasts, in consumption value (\$ Million), sales quantity (Gram), and average selling prices (US\$/g), 2021-2032

Global Iron-59 market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Gram), and average selling prices (US\$/g), 2021-2032

Global Iron-59 market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Gram), and average selling prices (US\$/g), 2021-2032

Global Iron-59 market shares of main players, shipments in revenue (\$ Million), sales quantity (Gram), and ASP (US\$/g), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Iron-59

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Iron-59 market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Rosatom, NIDC(DOE IP), POLATOM, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Iron-59 market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Metal Oxide

Solution

Market segment by Radioactivity

Low Activity Iron-59

Medium Activity Iron-59

High Activity Iron-59

Market segment by Production Method

Iron-58 Neutron-activated Production

Particle Irradiation Produced Iron-59

Isotope Separation Assisted Iron-59

Market segment by Radiochemical Purity

General Research Grade

High Purity Grade

Ultra-high Purity Grade

Market segment by Application

Biological Research

Medical Research

Major players covered

Rosatom

NIDC(DOE IP)

POLATOM

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Iron-59 product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Iron-59, with price, sales quantity, revenue, and global market share of Iron-59 from 2021 to 2026.

Chapter 3, the Iron-59 competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Iron-59 breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Iron-59 market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Iron-59.

Chapter 14 and 15, to describe Iron-59 sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Iron-59 Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Metal Oxide

1.3.3 Solution

1.4 Market Analysis by Radioactivity

1.4.1 Overview: Global Iron-59 Consumption Value by Radioactivity: 2021 Versus 2025 Versus 2032

1.4.2 Low Activity Iron-59

1.4.3 Medium Activity Iron-59

1.4.4 High Activity Iron-59

1.5 Market Analysis by Production Method

1.5.1 Overview: Global Iron-59 Consumption Value by Production Method: 2021 Versus 2025 Versus 2032

1.5.2 Iron-58 Neutron-activated Production

1.5.3 Particle Irradiation Produced Iron-59

1.5.4 Isotope Separation Assisted Iron-59

1.6 Market Analysis by Radiochemical Purity

1.6.1 Overview: Global Iron-59 Consumption Value by Radiochemical Purity: 2021 Versus 2025 Versus 2032

1.6.2 General Research Grade

1.6.3 High Purity Grade

1.6.4 Ultra-high Purity Grade

1.7 Market Analysis by Application

1.7.1 Overview: Global Iron-59 Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.7.2 Biological Research

1.7.3 Medical Research

1.8 Global Iron-59 Market Size & Forecast

1.8.1 Global Iron-59 Consumption Value (2021 & 2025 & 2032)

1.8.2 Global Iron-59 Sales Quantity (2021-2032)

1.8.3 Global Iron-59 Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 Rosatom

2.1.1 Rosatom Details

2.1.2 Rosatom Major Business

2.1.3 Rosatom Iron-59 Product and Services

2.1.4 Rosatom Iron-59 Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 Rosatom Recent Developments/Updates

2.2 NIDC(DOE IP)

2.2.1 NIDC(DOE IP) Details

2.2.2 NIDC(DOE IP) Major Business

2.2.3 NIDC(DOE IP) Iron-59 Product and Services

2.2.4 NIDC(DOE IP) Iron-59 Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.2.5 NIDC(DOE IP) Recent Developments/Updates

2.3 POLATOM

2.3.1 POLATOM Details

2.3.2 POLATOM Major Business

2.3.3 POLATOM Iron-59 Product and Services

2.3.4 POLATOM Iron-59 Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.3.5 POLATOM Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: IRON-59 BY MANUFACTURER

3.1 Global Iron-59 Sales Quantity by Manufacturer (2021-2026)

3.2 Global Iron-59 Revenue by Manufacturer (2021-2026)

3.3 Global Iron-59 Average Price by Manufacturer (2021-2026)

3.4 Market Share Analysis (2025)

3.4.1 Producer Shipments of Iron-59 by Manufacturer Revenue (\$MM) and Market Share (%): 2025

3.4.2 Top 3 Iron-59 Manufacturer Market Share in 2025

3.4.3 Top 6 Iron-59 Manufacturer Market Share in 2025

3.5 Iron-59 Market: Overall Company Footprint Analysis

3.5.1 Iron-59 Market: Region Footprint

3.5.2 Iron-59 Market: Company Product Type Footprint

3.5.3 Iron-59 Market: Company Product Application Footprint

3.6 New Market Entrants and Barriers to Market Entry

3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global Iron-59 Market Size by Region

4.1.1 Global Iron-59 Sales Quantity by Region (2021-2032)

4.1.2 Global Iron-59 Consumption Value by Region (2021-2032)

4.1.3 Global Iron-59 Average Price by Region (2021-2032)

4.2 North America Iron-59 Consumption Value (2021-2032)

4.3 Europe Iron-59 Consumption Value (2021-2032)

4.4 Asia-Pacific Iron-59 Consumption Value (2021-2032)

4.5 South America Iron-59 Consumption Value (2021-2032)

4.6 Middle East & Africa Iron-59 Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

5.1 Global Iron-59 Sales Quantity by Type (2021-2032)

5.2 Global Iron-59 Consumption Value by Type (2021-2032)

5.3 Global Iron-59 Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

6.1 Global Iron-59 Sales Quantity by Application (2021-2032)

6.2 Global Iron-59 Consumption Value by Application (2021-2032)

6.3 Global Iron-59 Average Price by Application (2021-2032)

7 NORTH AMERICA

7.1 North America Iron-59 Sales Quantity by Type (2021-2032)

7.2 North America Iron-59 Sales Quantity by Application (2021-2032)

7.3 North America Iron-59 Market Size by Country

7.3.1 North America Iron-59 Sales Quantity by Country (2021-2032)

7.3.2 North America Iron-59 Consumption Value by Country (2021-2032)

7.3.3 United States Market Size and Forecast (2021-2032)

7.3.4 Canada Market Size and Forecast (2021-2032)

7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

- 8.1 Europe Iron-59 Sales Quantity by Type (2021-2032)
- 8.2 Europe Iron-59 Sales Quantity by Application (2021-2032)
- 8.3 Europe Iron-59 Market Size by Country
 - 8.3.1 Europe Iron-59 Sales Quantity by Country (2021-2032)
 - 8.3.2 Europe Iron-59 Consumption Value by Country (2021-2032)
 - 8.3.3 Germany Market Size and Forecast (2021-2032)
 - 8.3.4 France Market Size and Forecast (2021-2032)
 - 8.3.5 United Kingdom Market Size and Forecast (2021-2032)
 - 8.3.6 Russia Market Size and Forecast (2021-2032)
 - 8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

- 9.1 Asia-Pacific Iron-59 Sales Quantity by Type (2021-2032)
- 9.2 Asia-Pacific Iron-59 Sales Quantity by Application (2021-2032)
- 9.3 Asia-Pacific Iron-59 Market Size by Region
 - 9.3.1 Asia-Pacific Iron-59 Sales Quantity by Region (2021-2032)
 - 9.3.2 Asia-Pacific Iron-59 Consumption Value by Region (2021-2032)
 - 9.3.3 China Market Size and Forecast (2021-2032)
 - 9.3.4 Japan Market Size and Forecast (2021-2032)
 - 9.3.5 South Korea Market Size and Forecast (2021-2032)
 - 9.3.6 India Market Size and Forecast (2021-2032)
 - 9.3.7 Southeast Asia Market Size and Forecast (2021-2032)
 - 9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

- 10.1 South America Iron-59 Sales Quantity by Type (2021-2032)
- 10.2 South America Iron-59 Sales Quantity by Application (2021-2032)
- 10.3 South America Iron-59 Market Size by Country
 - 10.3.1 South America Iron-59 Sales Quantity by Country (2021-2032)
 - 10.3.2 South America Iron-59 Consumption Value by Country (2021-2032)
 - 10.3.3 Brazil Market Size and Forecast (2021-2032)
 - 10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

- 11.1 Middle East & Africa Iron-59 Sales Quantity by Type (2021-2032)
- 11.2 Middle East & Africa Iron-59 Sales Quantity by Application (2021-2032)

11.3 Middle East & Africa Iron-59 Market Size by Country

- 11.3.1 Middle East & Africa Iron-59 Sales Quantity by Country (2021-2032)
- 11.3.2 Middle East & Africa Iron-59 Consumption Value by Country (2021-2032)
- 11.3.3 Turkey Market Size and Forecast (2021-2032)
- 11.3.4 Egypt Market Size and Forecast (2021-2032)
- 11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)
- 11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

- 12.1 Iron-59 Market Drivers
- 12.2 Iron-59 Market Restraints
- 12.3 Iron-59 Trends Analysis
- 12.4 Porters Five Forces Analysis
 - 12.4.1 Threat of New Entrants
 - 12.4.2 Bargaining Power of Suppliers
 - 12.4.3 Bargaining Power of Buyers
 - 12.4.4 Threat of Substitutes
 - 12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

- 13.1 Raw Material of Iron-59 and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of Iron-59
- 13.3 Iron-59 Production Process
- 13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

- 14.1 Sales Channel
 - 14.1.1 Direct to End-User
 - 14.1.2 Distributors
- 14.2 Iron-59 Typical Distributors
- 14.3 Iron-59 Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Iron-59 Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Iron-59 Consumption Value by Radioactivity, (USD Million), 2021 & 2025 & 2032

Table 3. Global Iron-59 Consumption Value by Production Method, (USD Million), 2021 & 2025 & 2032

Table 4. Global Iron-59 Consumption Value by Radiochemical Purity, (USD Million), 2021 & 2025 & 2032

Table 5. Global Iron-59 Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 6. Rosatom Basic Information, Manufacturing Base and Competitors

Table 7. Rosatom Major Business

Table 8. Rosatom Iron-59 Product and Services

Table 9. Rosatom Iron-59 Sales Quantity (Gram), Average Price (US\$/g), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 10. Rosatom Recent Developments/Updates

Table 11. NIDC(DOE IP) Basic Information, Manufacturing Base and Competitors

Table 12. NIDC(DOE IP) Major Business

Table 13. NIDC(DOE IP) Iron-59 Product and Services

Table 14. NIDC(DOE IP) Iron-59 Sales Quantity (Gram), Average Price (US\$/g), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 15. NIDC(DOE IP) Recent Developments/Updates

Table 16. POLATOM Basic Information, Manufacturing Base and Competitors

Table 17. POLATOM Major Business

Table 18. POLATOM Iron-59 Product and Services

Table 19. POLATOM Iron-59 Sales Quantity (Gram), Average Price (US\$/g), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 20. POLATOM Recent Developments/Updates

Table 21. Global Iron-59 Sales Quantity by Manufacturer (2021-2026) & (Gram)

Table 22. Global Iron-59 Revenue by Manufacturer (2021-2026) & (USD Million)

Table 23. Global Iron-59 Average Price by Manufacturer (2021-2026) & (US\$/g)

Table 24. Market Position of Manufacturers in Iron-59, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 25. Head Office and Iron-59 Production Site of Key Manufacturer

Table 26. Iron-59 Market: Company Product Type Footprint

Table 27. Iron-59 Market: Company Product Application Footprint
Table 28. Iron-59 New Market Entrants and Barriers to Market Entry
Table 29. Iron-59 Mergers, Acquisition, Agreements, and Collaborations
Table 30. Global Iron-59 Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR
Table 31. Global Iron-59 Sales Quantity by Region (2021-2026) & (Gram)
Table 32. Global Iron-59 Sales Quantity by Region (2027-2032) & (Gram)
Table 33. Global Iron-59 Consumption Value by Region (2021-2026) & (USD Million)
Table 34. Global Iron-59 Consumption Value by Region (2027-2032) & (USD Million)
Table 35. Global Iron-59 Average Price by Region (2021-2026) & (US\$/g)
Table 36. Global Iron-59 Average Price by Region (2027-2032) & (US\$/g)
Table 37. Global Iron-59 Sales Quantity by Type (2021-2026) & (Gram)
Table 38. Global Iron-59 Sales Quantity by Type (2027-2032) & (Gram)
Table 39. Global Iron-59 Consumption Value by Type (2021-2026) & (USD Million)
Table 40. Global Iron-59 Consumption Value by Type (2027-2032) & (USD Million)
Table 41. Global Iron-59 Average Price by Type (2021-2026) & (US\$/g)
Table 42. Global Iron-59 Average Price by Type (2027-2032) & (US\$/g)
Table 43. Global Iron-59 Sales Quantity by Application (2021-2026) & (Gram)
Table 44. Global Iron-59 Sales Quantity by Application (2027-2032) & (Gram)
Table 45. Global Iron-59 Consumption Value by Application (2021-2026) & (USD Million)
Table 46. Global Iron-59 Consumption Value by Application (2027-2032) & (USD Million)
Table 47. Global Iron-59 Average Price by Application (2021-2026) & (US\$/g)
Table 48. Global Iron-59 Average Price by Application (2027-2032) & (US\$/g)
Table 49. North America Iron-59 Sales Quantity by Type (2021-2026) & (Gram)
Table 50. North America Iron-59 Sales Quantity by Type (2027-2032) & (Gram)
Table 51. North America Iron-59 Sales Quantity by Application (2021-2026) & (Gram)
Table 52. North America Iron-59 Sales Quantity by Application (2027-2032) & (Gram)
Table 53. North America Iron-59 Sales Quantity by Country (2021-2026) & (Gram)
Table 54. North America Iron-59 Sales Quantity by Country (2027-2032) & (Gram)
Table 55. North America Iron-59 Consumption Value by Country (2021-2026) & (USD Million)
Table 56. North America Iron-59 Consumption Value by Country (2027-2032) & (USD Million)
Table 57. Europe Iron-59 Sales Quantity by Type (2021-2026) & (Gram)
Table 58. Europe Iron-59 Sales Quantity by Type (2027-2032) & (Gram)
Table 59. Europe Iron-59 Sales Quantity by Application (2021-2026) & (Gram)
Table 60. Europe Iron-59 Sales Quantity by Application (2027-2032) & (Gram)

Table 61. Europe Iron-59 Sales Quantity by Country (2021-2026) & (Gram)
Table 62. Europe Iron-59 Sales Quantity by Country (2027-2032) & (Gram)
Table 63. Europe Iron-59 Consumption Value by Country (2021-2026) & (USD Million)
Table 64. Europe Iron-59 Consumption Value by Country (2027-2032) & (USD Million)
Table 65. Asia-Pacific Iron-59 Sales Quantity by Type (2021-2026) & (Gram)
Table 66. Asia-Pacific Iron-59 Sales Quantity by Type (2027-2032) & (Gram)
Table 67. Asia-Pacific Iron-59 Sales Quantity by Application (2021-2026) & (Gram)
Table 68. Asia-Pacific Iron-59 Sales Quantity by Application (2027-2032) & (Gram)
Table 69. Asia-Pacific Iron-59 Sales Quantity by Region (2021-2026) & (Gram)
Table 70. Asia-Pacific Iron-59 Sales Quantity by Region (2027-2032) & (Gram)
Table 71. Asia-Pacific Iron-59 Consumption Value by Region (2021-2026) & (USD Million)
Table 72. Asia-Pacific Iron-59 Consumption Value by Region (2027-2032) & (USD Million)
Table 73. South America Iron-59 Sales Quantity by Type (2021-2026) & (Gram)
Table 74. South America Iron-59 Sales Quantity by Type (2027-2032) & (Gram)
Table 75. South America Iron-59 Sales Quantity by Application (2021-2026) & (Gram)
Table 76. South America Iron-59 Sales Quantity by Application (2027-2032) & (Gram)
Table 77. South America Iron-59 Sales Quantity by Country (2021-2026) & (Gram)
Table 78. South America Iron-59 Sales Quantity by Country (2027-2032) & (Gram)
Table 79. South America Iron-59 Consumption Value by Country (2021-2026) & (USD Million)
Table 80. South America Iron-59 Consumption Value by Country (2027-2032) & (USD Million)
Table 81. Middle East & Africa Iron-59 Sales Quantity by Type (2021-2026) & (Gram)
Table 82. Middle East & Africa Iron-59 Sales Quantity by Type (2027-2032) & (Gram)
Table 83. Middle East & Africa Iron-59 Sales Quantity by Application (2021-2026) & (Gram)
Table 84. Middle East & Africa Iron-59 Sales Quantity by Application (2027-2032) & (Gram)
Table 85. Middle East & Africa Iron-59 Sales Quantity by Country (2021-2026) & (Gram)
Table 86. Middle East & Africa Iron-59 Sales Quantity by Country (2027-2032) & (Gram)
Table 87. Middle East & Africa Iron-59 Consumption Value by Country (2021-2026) & (USD Million)
Table 88. Middle East & Africa Iron-59 Consumption Value by Country (2027-2032) & (USD Million)
Table 89. Iron-59 Raw Material
Table 90. Key Manufacturers of Iron-59 Raw Materials
Table 91. Iron-59 Typical Distributors

Table 92. Iron-59 Typical Customers

List Of Figures

LIST OF FIGURES

- Figure 1. Iron-59 Picture
- Figure 2. Global Iron-59 Revenue by Type, (USD Million), 2021 & 2025 & 2032
- Figure 3. Global Iron-59 Revenue Market Share by Type in 2025
- Figure 4. Metal Oxide Examples
- Figure 5. Solution Examples
- Figure 6. Global Iron-59 Revenue by Radioactivity, (USD Million), 2021 & 2025 & 2032
- Figure 7. Global Iron-59 Revenue Market Share by Radioactivity in 2025
- Figure 8. Low Activity Iron-59 Examples
- Figure 9. Medium Activity Iron-59 Examples
- Figure 10. High Activity Iron-59 Examples
- Figure 11. Global Iron-59 Revenue by Production Method, (USD Million), 2021 & 2025 & 2032
- Figure 12. Global Iron-59 Revenue Market Share by Production Method in 2025
- Figure 13. Iron-58 Neutron-activated Production Examples
- Figure 14. Particle Irradiation Produced Iron-59 Examples
- Figure 15. Isotope Separation Assisted Iron-59 Examples
- Figure 16. Global Iron-59 Revenue by Radiochemical Purity, (USD Million), 2021 & 2025 & 2032
- Figure 17. Global Iron-59 Revenue Market Share by Radiochemical Purity in 2025
- Figure 18. General Research Grade Examples
- Figure 19. High Purity Grade Examples
- Figure 20. Ultra-high Purity Grade Examples
- Figure 21. Global Iron-59 Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 22. Global Iron-59 Revenue Market Share by Application in 2025
- Figure 23. Biological Research Examples
- Figure 24. Medical Research Examples
- Figure 25. Global Iron-59 Consumption Value, (USD Million): 2021 & 2025 & 2032
- Figure 26. Global Iron-59 Consumption Value and Forecast (2021-2032) & (USD Million)
- Figure 27. Global Iron-59 Sales Quantity (2021-2032) & (Gram)
- Figure 28. Global Iron-59 Price (2021-2032) & (US\$/g)
- Figure 29. Global Iron-59 Sales Quantity Market Share by Manufacturer in 2025
- Figure 30. Global Iron-59 Revenue Market Share by Manufacturer in 2025
- Figure 31. Producer Shipments of Iron-59 by Manufacturer Sales (\$MM) and Market

Share (%): 2025

Figure 32. Top 3 Iron-59 Manufacturer (Revenue) Market Share in 2025

Figure 33. Top 6 Iron-59 Manufacturer (Revenue) Market Share in 2025

Figure 34. Global Iron-59 Sales Quantity Market Share by Region (2021-2032)

Figure 35. Global Iron-59 Consumption Value Market Share by Region (2021-2032)

Figure 36. North America Iron-59 Consumption Value (2021-2032) & (USD Million)

Figure 37. Europe Iron-59 Consumption Value (2021-2032) & (USD Million)

Figure 38. Asia-Pacific Iron-59 Consumption Value (2021-2032) & (USD Million)

Figure 39. South America Iron-59 Consumption Value (2021-2032) & (USD Million)

Figure 40. Middle East & Africa Iron-59 Consumption Value (2021-2032) & (USD Million)

Figure 41. Global Iron-59 Sales Quantity Market Share by Type (2021-2032)

Figure 42. Global Iron-59 Consumption Value Market Share by Type (2021-2032)

Figure 43. Global Iron-59 Average Price by Type (2021-2032) & (US\$/g)

Figure 44. Global Iron-59 Sales Quantity Market Share by Application (2021-2032)

Figure 45. Global Iron-59 Revenue Market Share by Application (2021-2032)

Figure 46. Global Iron-59 Average Price by Application (2021-2032) & (US\$/g)

Figure 47. North America Iron-59 Sales Quantity Market Share by Type (2021-2032)

Figure 48. North America Iron-59 Sales Quantity Market Share by Application (2021-2032)

Figure 49. North America Iron-59 Sales Quantity Market Share by Country (2021-2032)

Figure 50. North America Iron-59 Consumption Value Market Share by Country (2021-2032)

Figure 51. United States Iron-59 Consumption Value (2021-2032) & (USD Million)

Figure 52. Canada Iron-59 Consumption Value (2021-2032) & (USD Million)

Figure 53. Mexico Iron-59 Consumption Value (2021-2032) & (USD Million)

Figure 54. Europe Iron-59 Sales Quantity Market Share by Type (2021-2032)

Figure 55. Europe Iron-59 Sales Quantity Market Share by Application (2021-2032)

Figure 56. Europe Iron-59 Sales Quantity Market Share by Country (2021-2032)

Figure 57. Europe Iron-59 Consumption Value Market Share by Country (2021-2032)

Figure 58. Germany Iron-59 Consumption Value (2021-2032) & (USD Million)

Figure 59. France Iron-59 Consumption Value (2021-2032) & (USD Million)

Figure 60. United Kingdom Iron-59 Consumption Value (2021-2032) & (USD Million)

Figure 61. Russia Iron-59 Consumption Value (2021-2032) & (USD Million)

Figure 62. Italy Iron-59 Consumption Value (2021-2032) & (USD Million)

Figure 63. Asia-Pacific Iron-59 Sales Quantity Market Share by Type (2021-2032)

Figure 64. Asia-Pacific Iron-59 Sales Quantity Market Share by Application (2021-2032)

Figure 65. Asia-Pacific Iron-59 Sales Quantity Market Share by Region (2021-2032)

Figure 66. Asia-Pacific Iron-59 Consumption Value Market Share by Region

(2021-2032)

Figure 67. China Iron-59 Consumption Value (2021-2032) & (USD Million)

Figure 68. Japan Iron-59 Consumption Value (2021-2032) & (USD Million)

Figure 69. South Korea Iron-59 Consumption Value (2021-2032) & (USD Million)

Figure 70. India Iron-59 Consumption Value (2021-2032) & (USD Million)

Figure 71. Southeast Asia Iron-59 Consumption Value (2021-2032) & (USD Million)

Figure 72. Australia Iron-59 Consumption Value (2021-2032) & (USD Million)

Figure 73. South America Iron-59 Sales Quantity Market Share by Type (2021-2032)

Figure 74. South America Iron-59 Sales Quantity Market Share by Application
(2021-2032)

Figure 75. South America Iron-59 Sales Quantity Market Share by Country (2021-2032)

Figure 76. South America Iron-59 Consumption Value Market Share by Country
(2021-2032)

Figure 77. Brazil Iron-59 Consumption Value (2021-2032) & (USD Million)

Figure 78. Argentina Iron-59 Consumption Value (2021-2032) & (USD Million)

Figure 79. Middle East & Africa Iron-59 Sales Quantity Market Share by Type
(2021-2032)

Figure 80. Middle East & Africa Iron-59 Sales Quantity Market Share by Application
(2021-2032)

Figure 81. Middle East & Africa Iron-59 Sales Quantity Market Share by Country
(2021-2032)

Figure 82. Middle East & Africa Iron-59 Consumption Value Market Share by Country
(2021-2032)

Figure 83. Turkey Iron-59 Consumption Value (2021-2032) & (USD Million)

Figure 84. Egypt Iron-59 Consumption Value (2021-2032) & (USD Million)

Figure 85. Saudi Arabia Iron-59 Consumption Value (2021-2032) & (USD Million)

Figure 86. South Africa Iron-59 Consumption Value (2021-2032) & (USD Million)

Figure 87. Iron-59 Market Drivers

Figure 88. Iron-59 Market Restraints

Figure 89. Iron-59 Market Trends

Figure 90. Porters Five Forces Analysis

Figure 91. Manufacturing Cost Structure Analysis of Iron-59 in 2025

Figure 92. Manufacturing Process Analysis of Iron-59

Figure 93. Iron-59 Industrial Chain

Figure 94. Sales Channel: Direct to End-User vs Distributors

Figure 95. Direct Channel Pros & Cons

Figure 96. Indirect Channel Pros & Cons

Figure 97. Methodology

Figure 98. Research Process and Data Source

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