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Global R14 Refrigerant Market Growth 2026-2032

https://marketpublishers.com/r/GBEA1B89B3CAEN.html
Date: October 2026
Pages: 89
Price: US$ 3,660.00 (Single User License)
ID: GBEA1B89B3CAEN

Abstracts

The global R14 Refrigerant market size is predicted to grow from US$ 23.83 million in 2025 to US$ 31.85 million in 2032; it is expected to grow at a CAGR of 4.3% from 2026 to 2032.

In 2025, global sales of R14 Refrigerant were approximately 580 tons, with a mainstream ex-factory price of around USD 42/kg. The gross margin of major manufacturers in the industry was approximately 28%–42%.

R14 Refrigerant is a specialty ultra-low-temperature refrigerant composed of tetrafluoromethane, with the chemical formula CF4. It belongs to the perfluorocarbon refrigerant family and features non-flammability, strong chemical stability, and excellent low-temperature performance. It is mainly used in cascade refrigeration systems, cryogenic equipment, low-temperature laboratory devices, medical freezing equipment, and industrial low-temperature testing applications. Compared with conventional air-conditioning refrigerants such as R22, R134a, and R32, R14 is not a mainstream refrigerant for mass-market refrigeration equipment, but a niche high-purity specialty refrigerant designed for ultra-low-temperature operating conditions.

Its upstream mainly includes fluorochemical raw materials, fluorination reaction feedstocks, high-purity gas purification materials, gas cylinders, and valve packaging systems. In the midstream, R14 is typically produced and purified into industrial-grade or high-purity products through direct fluorination, fluorochloromethane conversion, recovery purification, and refining processes. Downstream applications mainly include ultra-low-temperature refrigeration, scientific research and experimentation, medical freezing, and industrial testing. Due to the high global warming potential of R14 and the fact that the same chemical can also be used as an electronic specialty gas in high-purity specifications, the industry has relatively high requirements for product purity, impurity control, packaging safety, recycling management, and environmental

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compliance.

United States market for R14 Refrigerant is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for R14 Refrigerant is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for R14 Refrigerant is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key R14 Refrigerant players cover Linde, Air Liquide, Messer Group, Haohua Gas, Rongqiang Chemical, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the “R14 Refrigerant Industry Forecast” looks at past sales and reviews total world R14 Refrigerant sales in 2025, providing a comprehensive analysis by region and market sector of projected R14 Refrigerant sales for 2026 through 2032. With R14 Refrigerant sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world R14 Refrigerant industry.

This Insight Report provides a comprehensive analysis of the global R14 Refrigerant landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on R14 Refrigerant portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global R14 Refrigerant market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for R14 Refrigerant and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global R14 Refrigerant.

This report presents a comprehensive overview, market shares, and growth opportunities of R14 Refrigerant market by product type, application, key manufacturers

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and key regions and countries.

Segmentation by Type:

Industrial Grade (Purity ?99.9%)

Electronic Grade (Purity ?99.999%)

Segmentation by Production Route:

Direct Fluorination

Fluorochloromethane Conversion

Segmentation by Application:

Scientific Research and Experimentation

Medical Freezing

Industrial Testing

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

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- APAC
  - China
  - Japan
  - Korea
  - Southeast Asia
  - India
  - Australia
- Europe
  - Germany
  - France
  - UK
  - Italy
  - Russia
- Middle East & Africa
  - Egypt
  - South Africa
  - Israel
  - Turkey
  - GCC Countries

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

Linde

Air Liquide

Messer Group

Haohua Gas

Rongqiang Chemical

Dalian Special Gases

Key Questions Addressed in this Report

What is the 10-year outlook for the global R14 Refrigerant market?

What factors are driving R14 Refrigerant market growth, globally and by region?

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

How do R14 Refrigerant market opportunities vary by end market size?

How does R14 Refrigerant break out by Type, by Application?

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Contents

1 SCOPE OF THE REPORT

1.1 Market Introduction
1.2 Years Considered
1.3 Research Objectives
1.4 Market Research Methodology
1.5 Research Process and Data Source
1.6 Economic Indicators
1.7 Currency Considered
1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview
  2.1.1 Global R14 Refrigerant Annual Sales 2021-2032
  2.1.2 World Current & Future Analysis for R14 Refrigerant by Geographic Region, 2021, 2025 & 2032
  2.1.3 World Current & Future Analysis for R14 Refrigerant by Country/Region, 2021, 2025 & 2032
2.2 R14 Refrigerant Segment by Type
  2.2.1 Industrial Grade (Purity ?99.9%)
  2.2.2 Electronic Grade (Purity ?99.999%)
  2.2.3 R14 Refrigerant Sales by Type
    2.2.3.1 Global R14 Refrigerant Sales Market Share by Type (2021-2026)
    2.2.3.2 Global R14 Refrigerant Revenue and Market Share by Type (2021-2026)
    2.2.3.3 Global R14 Refrigerant Sale Price by Type (2021-2026)
2.3 R14 Refrigerant Segment by Production Route
  2.3.1 Direct Fluorination
  2.3.2 Fluorochloromethane Conversion
  2.3.3 R14 Refrigerant Sales by Production Route
    2.3.3.1 Global R14 Refrigerant Sales Market Share by Production Route (2021-2026)
    2.3.3.2 Global R14 Refrigerant Revenue and Market Share by Production Route (2021-2026)
    2.3.3.3 Global R14 Refrigerant Sale Price by Production Route (2021-2026)
2.4 R14 Refrigerant Segment by Application
  2.4.1 Scientific Research and Experimentation
  2.4.2 Medical Freezing

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2.4.3 Industrial Testing
2.4.4 Other
2.4.5 R14 Refrigerant Sales by Application
2.4.5.1 Global R14 Refrigerant Sale Market Share by Application (2021-2026)
2.4.5.2 Global R14 Refrigerant Revenue and Market Share by Application (2021-2026)
2.4.5.3 Global R14 Refrigerant Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global R14 Refrigerant Breakdown Data by Company
3.1.1 Global R14 Refrigerant Annual Sales by Company (2021-2026)
3.1.2 Global R14 Refrigerant Sales Market Share by Company (2021-2026)
3.2 Global R14 Refrigerant Annual Revenue by Company (2021-2026)
3.2.1 Global R14 Refrigerant Revenue by Company (2021-2026)
3.2.2 Global R14 Refrigerant Revenue Market Share by Company (2021-2026)
3.3 Global R14 Refrigerant Sale Price by Company
3.4 Key Manufacturers R14 Refrigerant Producing Area Distribution, Sales Area, Product Type
3.4.1 Key Manufacturers R14 Refrigerant Product Location Distribution
3.4.2 Players R14 Refrigerant Products Offered
3.5 Market Concentration Rate Analysis
3.5.1 Competition Landscape Analysis
3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
3.6 New Products and Potential Entrants
3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR R14 REFRIGERANT BY GEOGRAPHIC REGION

4.1 World Historic R14 Refrigerant Market Size by Geographic Region (2021-2026)
4.1.1 Global R14 Refrigerant Annual Sales by Geographic Region (2021-2026)
4.1.2 Global R14 Refrigerant Annual Revenue by Geographic Region (2021-2026)
4.2 World Historic R14 Refrigerant Market Size by Country/Region (2021-2026)
4.2.1 Global R14 Refrigerant Annual Sales by Country/Region (2021-2026)
4.2.2 Global R14 Refrigerant Annual Revenue by Country/Region (2021-2026)
4.3 Americas R14 Refrigerant Sales Growth
4.4 APAC R14 Refrigerant Sales Growth
4.5 Europe R14 Refrigerant Sales Growth
4.6 Middle East & Africa R14 Refrigerant Sales Growth

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5 AMERICAS

5.1 Americas R14 Refrigerant Sales by Country
5.1.1 Americas R14 Refrigerant Sales by Country (2021-2026)
5.1.2 Americas R14 Refrigerant Revenue by Country (2021-2026)
5.2 Americas R14 Refrigerant Sales by Type (2021-2026)
5.3 Americas R14 Refrigerant Sales by Application (2021-2026)
5.4 United States
5.5 Canada
5.6 Mexico
5.7 Brazil

6 APAC

6.1 APAC R14 Refrigerant Sales by Region
6.1.1 APAC R14 Refrigerant Sales by Region (2021-2026)
6.1.2 APAC R14 Refrigerant Revenue by Region (2021-2026)
6.2 APAC R14 Refrigerant Sales by Type (2021-2026)
6.3 APAC R14 Refrigerant Sales by Application (2021-2026)
6.4 China
6.5 Japan
6.6 South Korea
6.7 Southeast Asia
6.8 India
6.9 Australia
6.10 China Taiwan

7 EUROPE

7.1 Europe R14 Refrigerant by Country
7.1.1 Europe R14 Refrigerant Sales by Country (2021-2026)
7.1.2 Europe R14 Refrigerant Revenue by Country (2021-2026)
7.2 Europe R14 Refrigerant Sales by Type (2021-2026)
7.3 Europe R14 Refrigerant Sales by Application (2021-2026)
7.4 Germany
7.5 France
7.6 UK
7.7 Italy

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7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa R14 Refrigerant by Country
  8.1.1 Middle East & Africa R14 Refrigerant Sales by Country (2021-2026)
  8.1.2 Middle East & Africa R14 Refrigerant Revenue by Country (2021-2026)
8.2 Middle East & Africa R14 Refrigerant Sales by Type (2021-2026)
8.3 Middle East & Africa R14 Refrigerant Sales by Application (2021-2026)
8.4 Egypt
8.5 South Africa
8.6 Israel
8.7 Turkey
8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities
9.2 Market Challenges & Risks
9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers
10.2 Manufacturing Cost Structure Analysis of R14 Refrigerant
10.3 Manufacturing Process Analysis of R14 Refrigerant
10.4 Industry Chain Structure of R14 Refrigerant

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel
  11.1.1 Direct Channels
  11.1.2 Indirect Channels
11.2 R14 Refrigerant Distributors
11.3 R14 Refrigerant Customer

12 WORLD FORECAST REVIEW FOR R14 REFRIGERANT BY GEOGRAPHIC REGION

+357 96 030922
info@marketpublishers.com

12.1 Global R14 Refrigerant Market Size Forecast by Region
12.1.1 Global R14 Refrigerant Forecast by Region (2027-2032)
12.1.2 Global R14 Refrigerant Annual Revenue Forecast by Region (2027-2032)
12.2 Americas Forecast by Country (2027-2032)
12.3 APAC Forecast by Region (2027-2032)
12.4 Europe Forecast by Country (2027-2032)
12.5 Middle East & Africa Forecast by Country (2027-2032)
12.6 Global R14 Refrigerant Forecast by Type (2027-2032)
12.7 Global R14 Refrigerant Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Linde
13.1.1 Linde Company Information
13.1.2 Linde R14 Refrigerant Product Portfolios and Specifications
13.1.3 Linde R14 Refrigerant Sales, Revenue, Price and Gross Margin (2021-2026)
13.1.4 Linde Main Business Overview
13.1.5 Linde Latest Developments
13.2 Air Liquide
13.2.1 Air Liquide Company Information
13.2.2 Air Liquide R14 Refrigerant Product Portfolios and Specifications
13.2.3 Air Liquide R14 Refrigerant Sales, Revenue, Price and Gross Margin (2021-2026)
13.2.4 Air Liquide Main Business Overview
13.2.5 Air Liquide Latest Developments
13.3 Messer Group
13.3.1 Messer Group Company Information
13.3.2 Messer Group R14 Refrigerant Product Portfolios and Specifications
13.3.3 Messer Group R14 Refrigerant Sales, Revenue, Price and Gross Margin (2021-2026)
13.3.4 Messer Group Main Business Overview
13.3.5 Messer Group Latest Developments
13.4 Haohua Gas
13.4.1 Haohua Gas Company Information
13.4.2 Haohua Gas R14 Refrigerant Product Portfolios and Specifications
13.4.3 Haohua Gas R14 Refrigerant Sales, Revenue, Price and Gross Margin (2021-2026)
13.4.4 Haohua Gas Main Business Overview
13.4.5 Haohua Gas Latest Developments

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info@marketpublishers.com

13.5 Rongqiang Chemical
13.5.1 Rongqiang Chemical Company Information
13.5.2 Rongqiang Chemical R14 Refrigerant Product Portfolios and Specifications
13.5.3 Rongqiang Chemical R14 Refrigerant Sales, Revenue, Price and Gross Margin (2021-2026)
13.5.4 Rongqiang Chemical Main Business Overview
13.5.5 Rongqiang Chemical Latest Developments
13.6 Dalian Special Gases
13.6.1 Dalian Special Gases Company Information
13.6.2 Dalian Special Gases R14 Refrigerant Product Portfolios and Specifications
13.6.3 Dalian Special Gases R14 Refrigerant Sales, Revenue, Price and Gross Margin (2021-2026)
13.6.4 Dalian Special Gases Main Business Overview
13.6.5 Dalian Special Gases Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

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List Of Tables

LIST OF TABLES

Table 1. R14 Refrigerant Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & ($ millions)
Table 2. R14 Refrigerant Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & ($ millions)
Table 3. Major Players of Industrial Grade (Purity ?99.9%)
Table 4. Major Players of Electronic Grade (Purity ?99.999%)
Table 5. Global R14 Refrigerant Sales by Type (2021-2026) & (Tons)
Table 6. Global R14 Refrigerant Sales Market Share by Type (2021-2026)
Table 7. Global R14 Refrigerant Revenue by Type (2021-2026) & ($ million)
Table 8. Global R14 Refrigerant Revenue Market Share by Type (2021-2026)
Table 9. Global R14 Refrigerant Sale Price by Type (2021-2026) & (US$/kg)
Table 10. Major Players of Direct Fluorination
Table 11. Major Players of Fluorochloromethane Conversion
Table 12. Global R14 Refrigerant Sales by Production Route (2021-2026) & (Tons)
Table 13. Global R14 Refrigerant Sales Market Share by Production Route (2021-2026)
Table 14. Global R14 Refrigerant Revenue by Production Route (2021-2026) & ($ million)
Table 15. Global R14 Refrigerant Revenue Market Share by Production Route (2021-2026)
Table 16. Global R14 Refrigerant Sale Price by Production Route (2021-2026) & (US$/kg)
Table 17. Global R14 Refrigerant Sale by Application (2021-2026) & (Tons)
Table 18. Global R14 Refrigerant Sale Market Share by Application (2021-2026)
Table 19. Global R14 Refrigerant Revenue by Application (2021-2026) & ($ million)
Table 20. Global R14 Refrigerant Revenue Market Share by Application (2021-2026)
Table 21. Global R14 Refrigerant Sale Price by Application (2021-2026) & (US$/kg)
Table 22. Global R14 Refrigerant Sales by Company (2021-2026) & (Tons)
Table 23. Global R14 Refrigerant Sales Market Share by Company (2021-2026)
Table 24. Global R14 Refrigerant Revenue by Company (2021-2026) & ($ millions)
Table 25. Global R14 Refrigerant Revenue Market Share by Company (2021-2026)
Table 26. Global R14 Refrigerant Sale Price by Company (2021-2026) & (US$/kg)
Table 27. Key Manufacturers R14 Refrigerant Producing Area Distribution and Sales Area
Table 28. Players R14 Refrigerant Products Offered
Table 29. R14 Refrigerant Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

+357 96 030922
info@marketpublishers.com

Table 30. New Products and Potential Entrants
Table 31. Market M&A Activity & Strategy
Table 32. Global R14 Refrigerant Sales by Geographic Region (2021-2026) & (Tons)
Table 33. Global R14 Refrigerant Sales Market Share Geographic Region (2021-2026)
Table 34. Global R14 Refrigerant Revenue by Geographic Region (2021-2026) & ($ millions)
Table 35. Global R14 Refrigerant Revenue Market Share by Geographic Region (2021-2026)
Table 36. Global R14 Refrigerant Sales by Country/Region (2021-2026) & (Tons)
Table 37. Global R14 Refrigerant Sales Market Share by Country/Region (2021-2026)
Table 38. Global R14 Refrigerant Revenue by Country/Region (2021-2026) & ($ millions)
Table 39. Global R14 Refrigerant Revenue Market Share by Country/Region (2021-2026)
Table 40. Americas R14 Refrigerant Sales by Country (2021-2026) & (Tons)
Table 41. Americas R14 Refrigerant Sales Market Share by Country (2021-2026)
Table 42. Americas R14 Refrigerant Revenue by Country (2021-2026) & ($ millions)
Table 43. Americas R14 Refrigerant Sales by Type (2021-2026) & (Tons)
Table 44. Americas R14 Refrigerant Sales by Application (2021-2026) & (Tons)
Table 45. APAC R14 Refrigerant Sales by Region (2021-2026) & (Tons)
Table 46. APAC R14 Refrigerant Sales Market Share by Region (2021-2026)
Table 47. APAC R14 Refrigerant Revenue by Region (2021-2026) & ($ millions)
Table 48. APAC R14 Refrigerant Sales by Type (2021-2026) & (Tons)
Table 49. APAC R14 Refrigerant Sales by Application (2021-2026) & (Tons)
Table 50. Europe R14 Refrigerant Sales by Country (2021-2026) & (Tons)
Table 51. Europe R14 Refrigerant Revenue by Country (2021-2026) & ($ millions)
Table 52. Europe R14 Refrigerant Sales by Type (2021-2026) & (Tons)
Table 53. Europe R14 Refrigerant Sales by Application (2021-2026) & (Tons)
Table 54. Middle East & Africa R14 Refrigerant Sales by Country (2021-2026) & (Tons)
Table 55. Middle East & Africa R14 Refrigerant Revenue Market Share by Country (2021-2026)
Table 56. Middle East & Africa R14 Refrigerant Sales by Type (2021-2026) & (Tons)
Table 57. Middle East & Africa R14 Refrigerant Sales by Application (2021-2026) & (Tons)
Table 58. Key Market Drivers & Growth Opportunities of R14 Refrigerant
Table 59. Key Market Challenges & Risks of R14 Refrigerant
Table 60. Key Industry Trends of R14 Refrigerant
Table 61. R14 Refrigerant Raw Material
Table 62. Key Suppliers of Raw Materials

+357 96 030922
info@marketpublishers.com

Table 63. R14 Refrigerant Distributors List
Table 64. R14 Refrigerant Customer List
Table 65. Global R14 Refrigerant Sales Forecast by Region (2027-2032) & (Tons)
Table 66. Global R14 Refrigerant Revenue Forecast by Region (2027-2032) & ($ millions)
Table 67. Americas R14 Refrigerant Sales Forecast by Country (2027-2032) & (Tons)
Table 68. Americas R14 Refrigerant Annual Revenue Forecast by Country (2027-2032) & ($ millions)
Table 69. APAC R14 Refrigerant Sales Forecast by Region (2027-2032) & (Tons)
Table 70. APAC R14 Refrigerant Annual Revenue Forecast by Region (2027-2032) & ($ millions)
Table 71. Europe R14 Refrigerant Sales Forecast by Country (2027-2032) & (Tons)
Table 72. Europe R14 Refrigerant Revenue Forecast by Country (2027-2032) & ($ millions)
Table 73. Middle East & Africa R14 Refrigerant Sales Forecast by Country (2027-2032) & (Tons)
Table 74. Middle East & Africa R14 Refrigerant Revenue Forecast by Country (2027-2032) & ($ millions)
Table 75. Global R14 Refrigerant Sales Forecast by Type (2027-2032) & (Tons)
Table 76. Global R14 Refrigerant Revenue Forecast by Type (2027-2032) & ($ millions)
Table 77. Global R14 Refrigerant Sales Forecast by Application (2027-2032) & (Tons)
Table 78. Global R14 Refrigerant Revenue Forecast by Application (2027-2032) & ($ millions)
Table 79. Linde Basic Information, R14 Refrigerant Manufacturing Base, Sales Area and Its Competitors
Table 80. Linde R14 Refrigerant Product Portfolios and Specifications
Table 81. Linde R14 Refrigerant Sales (Tons), Revenue ($ Million), Price (US$/kg) and Gross Margin (2021-2026)
Table 82. Linde Main Business
Table 83. Linde Latest Developments
Table 84. Air Liquide Basic Information, R14 Refrigerant Manufacturing Base, Sales Area and Its Competitors
Table 85. Air Liquide R14 Refrigerant Product Portfolios and Specifications
Table 86. Air Liquide R14 Refrigerant Sales (Tons), Revenue ($ Million), Price (US$/kg) and Gross Margin (2021-2026)
Table 87. Air Liquide Main Business
Table 88. Air Liquide Latest Developments
Table 89. Messer Group Basic Information, R14 Refrigerant Manufacturing Base, Sales Area and Its Competitors

+357 96 030922
info@marketpublishers.com

Table 90. Messer Group R14 Refrigerant Product Portfolios and Specifications
Table 91. Messer Group R14 Refrigerant Sales (Tons), Revenue ($ Million), Price (US$/kg) and Gross Margin (2021-2026)
Table 92. Messer Group Main Business
Table 93. Messer Group Latest Developments
Table 94. Haohua Gas Basic Information, R14 Refrigerant Manufacturing Base, Sales Area and Its Competitors
Table 95. Haohua Gas R14 Refrigerant Product Portfolios and Specifications
Table 96. Haohua Gas R14 Refrigerant Sales (Tons), Revenue ($ Million), Price (US$/kg) and Gross Margin (2021-2026)
Table 97. Haohua Gas Main Business
Table 98. Haohua Gas Latest Developments
Table 99. Rongqiang Chemical Basic Information, R14 Refrigerant Manufacturing Base, Sales Area and Its Competitors
Table 100. Rongqiang Chemical R14 Refrigerant Product Portfolios and Specifications
Table 101. Rongqiang Chemical R14 Refrigerant Sales (Tons), Revenue ($ Million), Price (US$/kg) and Gross Margin (2021-2026)
Table 102. Rongqiang Chemical Main Business
Table 103. Rongqiang Chemical Latest Developments
Table 104. Dalian Special Gases Basic Information, R14 Refrigerant Manufacturing Base, Sales Area and Its Competitors
Table 105. Dalian Special Gases R14 Refrigerant Product Portfolios and Specifications
Table 106. Dalian Special Gases R14 Refrigerant Sales (Tons), Revenue ($ Million), Price (US$/kg) and Gross Margin (2021-2026)
Table 107. Dalian Special Gases Main Business
Table 108. Dalian Special Gases Latest Developments

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List Of Figures

LIST OF FIGURES

Figure 1. Picture of R14 Refrigerant
Figure 2. R14 Refrigerant Report Years Considered
Figure 3. Research Objectives
Figure 4. Research Methodology
Figure 5. Research Process and Data Source
Figure 6. Global R14 Refrigerant Sales Growth Rate 2021-2032 (Tons)
Figure 7. Global R14 Refrigerant Revenue Growth Rate 2021-2032 ($ millions)
Figure 8. R14 Refrigerant Sales by Geographic Region (2021, 2025 & 2032) & ($ millions)
Figure 9. R14 Refrigerant Sales Market Share by Country/Region (2025)
Figure 10. R14 Refrigerant Sales Market Share by Country/Region (2021, 2025 & 2032)
Figure 11. Product Picture of Industrial Grade (Purity ?99.9%)
Figure 12. Product Picture of Electronic Grade (Purity ?99.999%)
Figure 13. Global R14 Refrigerant Sales Market Share by Type in 2026
Figure 14. Global R14 Refrigerant Revenue Market Share by Type (2021-2026)
Figure 15. Product Picture of Direct Fluorination
Figure 16. Product Picture of Fluorochloromethane Conversion
Figure 17. Global R14 Refrigerant Sales Market Share by Production Route in 2026
Figure 18. Global R14 Refrigerant Revenue Market Share by Production Route (2021-2026)
Figure 19. R14 Refrigerant Consumed in Scientific Research and Experimentation
Figure 20. Global R14 Refrigerant Market: Scientific Research and Experimentation (2021-2026) & (Tons)
Figure 21. R14 Refrigerant Consumed in Medical Freezing
Figure 22. Global R14 Refrigerant Market: Medical Freezing (2021-2026) & (Tons)
Figure 23. R14 Refrigerant Consumed in Industrial Testing
Figure 24. Global R14 Refrigerant Market: Industrial Testing (2021-2026) & (Tons)
Figure 25. R14 Refrigerant Consumed in Other
Figure 26. Global R14 Refrigerant Market: Other (2021-2026) & (Tons)
Figure 27. Global R14 Refrigerant Sale Market Share by Application (2025)
Figure 28. Global R14 Refrigerant Revenue Market Share by Application in 2025
Figure 29. R14 Refrigerant Sales by Company in 2025 (Tons)
Figure 30. Global R14 Refrigerant Sales Market Share by Company in 2025
Figure 31. R14 Refrigerant Revenue by Company in 2025 ($ millions)
Figure 32. Global R14 Refrigerant Revenue Market Share by Company in 2025

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Figure 33. Global R14 Refrigerant Sales Market Share by Geographic Region (2021-2026)
Figure 34. Global R14 Refrigerant Revenue Market Share by Geographic Region in 2025
Figure 35. Americas R14 Refrigerant Sales 2021-2026 (Tons)
Figure 36. Americas R14 Refrigerant Revenue 2021-2026 ($ millions)
Figure 37. APAC R14 Refrigerant Sales 2021-2026 (Tons)
Figure 38. APAC R14 Refrigerant Revenue 2021-2026 ($ millions)
Figure 39. Europe R14 Refrigerant Sales 2021-2026 (Tons)
Figure 40. Europe R14 Refrigerant Revenue 2021-2026 ($ millions)
Figure 41. Middle East & Africa R14 Refrigerant Sales 2021-2026 (Tons)
Figure 42. Middle East & Africa R14 Refrigerant Revenue 2021-2026 ($ millions)
Figure 43. Americas R14 Refrigerant Sales Market Share by Country in 2025
Figure 44. Americas R14 Refrigerant Revenue Market Share by Country (2021-2026)
Figure 45. Americas R14 Refrigerant Sales Market Share by Type (2021-2026)
Figure 46. Americas R14 Refrigerant Sales Market Share by Application (2021-2026)
Figure 47. United States R14 Refrigerant Revenue Growth 2021-2026 ($ millions)
Figure 48. Canada R14 Refrigerant Revenue Growth 2021-2026 ($ millions)
Figure 49. Mexico R14 Refrigerant Revenue Growth 2021-2026 ($ millions)
Figure 50. Brazil R14 Refrigerant Revenue Growth 2021-2026 ($ millions)
Figure 51. APAC R14 Refrigerant Sales Market Share by Region in 2025
Figure 52. APAC R14 Refrigerant Revenue Market Share by Region (2021-2026)
Figure 53. APAC R14 Refrigerant Sales Market Share by Type (2021-2026)
Figure 54. APAC R14 Refrigerant Sales Market Share by Application (2021-2026)
Figure 55. China R14 Refrigerant Revenue Growth 2021-2026 ($ millions)
Figure 56. Japan R14 Refrigerant Revenue Growth 2021-2026 ($ millions)
Figure 57. South Korea R14 Refrigerant Revenue Growth 2021-2026 ($ millions)
Figure 58. Southeast Asia R14 Refrigerant Revenue Growth 2021-2026 ($ millions)
Figure 59. India R14 Refrigerant Revenue Growth 2021-2026 ($ millions)
Figure 60. Australia R14 Refrigerant Revenue Growth 2021-2026 ($ millions)
Figure 61. China Taiwan R14 Refrigerant Revenue Growth 2021-2026 ($ millions)
Figure 62. Europe R14 Refrigerant Sales Market Share by Country in 2025
Figure 63. Europe R14 Refrigerant Revenue Market Share by Country (2021-2026)
Figure 64. Europe R14 Refrigerant Sales Market Share by Type (2021-2026)
Figure 65. Europe R14 Refrigerant Sales Market Share by Application (2021-2026)
Figure 66. Germany R14 Refrigerant Revenue Growth 2021-2026 ($ millions)
Figure 67. France R14 Refrigerant Revenue Growth 2021-2026 ($ millions)
Figure 68. UK R14 Refrigerant Revenue Growth 2021-2026 ($ millions)
Figure 69. Italy R14 Refrigerant Revenue Growth 2021-2026 ($ millions)

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Figure 70. Russia R14 Refrigerant Revenue Growth 2021-2026 ($ millions)
Figure 71. Middle East & Africa R14 Refrigerant Sales Market Share by Country (2021-2026)
Figure 72. Middle East & Africa R14 Refrigerant Sales Market Share by Type (2021-2026)
Figure 73. Middle East & Africa R14 Refrigerant Sales Market Share by Application (2021-2026)
Figure 74. Egypt R14 Refrigerant Revenue Growth 2021-2026 ($ millions)
Figure 75. South Africa R14 Refrigerant Revenue Growth 2021-2026 ($ millions)
Figure 76. Israel R14 Refrigerant Revenue Growth 2021-2026 ($ millions)
Figure 77. Turkey R14 Refrigerant Revenue Growth 2021-2026 ($ millions)
Figure 78. GCC Countries R14 Refrigerant Revenue Growth 2021-2026 ($ millions)
Figure 79. Manufacturing Cost Structure Analysis of R14 Refrigerant in 2026
Figure 80. Manufacturing Process Analysis of R14 Refrigerant
Figure 81. Industry Chain Structure of R14 Refrigerant
Figure 82. Channels of Distribution
Figure 83. Global R14 Refrigerant Sales Market Forecast by Region (2027-2032)
Figure 84. Global R14 Refrigerant Revenue Market Share Forecast by Region (2027-2032)
Figure 85. Global R14 Refrigerant Sales Market Share Forecast by Type (2027-2032)
Figure 86. Global R14 Refrigerant Revenue Market Share Forecast by Type (2027-2032)
Figure 87. Global R14 Refrigerant Sales Market Share Forecast by Application (2027-2032)
Figure 88. Global R14 Refrigerant Revenue Market Share Forecast by Application (2027-2032)

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