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Global R14 Refrigerant Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global R14 Refrigerant market size is expected to reach $ 33.02 million by 2032, rising at a market growth of 4.0% CAGR during the forecast period (2026-2032).

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,

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impurity control, packaging safety, recycling management, and environmental compliance.

This report studies the global R14 Refrigerant production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for R14 Refrigerant 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 R14 Refrigerant that contribute to its increasing demand across many markets.

Highlights and key features of the study
Global R14 Refrigerant total production and demand, 2021-2032, (Tons)
Global R14 Refrigerant total production value, 2021-2032, (USD Million)
Global R14 Refrigerant production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)
Global R14 Refrigerant consumption by region & country, CAGR, 2021-2032 & (Tons)
U.S. VS China: R14 Refrigerant domestic production, consumption, key domestic manufacturers and share
Global R14 Refrigerant production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)
Global R14 Refrigerant production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)
Global R14 Refrigerant production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global R14 Refrigerant 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 Linde, Air Liquide, Messer Group, Haohua Gas, Rongqiang Chemical, Dalian Special Gases, 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 R14 Refrigerant market

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Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Tons) and average price (US$/kg) 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 R14 Refrigerant Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global R14 Refrigerant Market, Segmentation by Type:

Industrial Grade (Purity ?99.9%)

Electronic Grade (Purity ?99.999%)

Global R14 Refrigerant Market, Segmentation by Production Route:

Direct Fluorination

Fluorochloromethane Conversion

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Global R14 Refrigerant Market, Segmentation by Application:

- Scientific Research and Experimentation
- Medical Freezing
- Industrial Testing
- Other

Companies Profiled:

- Linde
- Air Liquide
- Messer Group
- Haohua Gas
- Rongqiang Chemical
- Dalian Special Gases

Key Questions Answered:
1. How big is the global R14 Refrigerant market?
2. What is the demand of the global R14 Refrigerant market?
3. What is the year over year growth of the global R14 Refrigerant market?
4. What is the production and production value of the global R14 Refrigerant market?
5. Who are the key producers in the global R14 Refrigerant market?
6. What are the growth factors driving the market demand?

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