

Global R1234ze Market Research Report 2024(Status and Outlook)

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Abstracts

Report Overview

R1234ze is a hydrofluoroolefin (HFO) refrigerant widely used in various applications due to its low global warming potential (GWP) and ozone depletion potential (ODP). The market for R1234ze is positioned as an environmentally friendly alternative to traditional refrigerants like R134a and R404a. Its key characteristics include high energy efficiency, thermal conductivity, and chemical stability, making it suitable for use in refrigeration, air conditioning, and heat pump systems.

As of 2023, the global market size for R1234ze stands at approximately \$120 million. The market is projected to grow at a compound annual growth rate (CAGR) of 8.5% from 2024 to 2032, reaching a value of \$210 million by the end of the forecast period. This growth can be attributed to stringent environmental regulations promoting the adoption of low-GWP refrigerants, increasing awareness of climate change, and the shift towards sustainable technologies in various industries.

Several key growth drivers and market forces impact the market for R1234ze. The phase-out of high-GWP refrigerants like R134a and R404a, driven by regulations such as the Kigali Amendment to the Montreal Protocol, is a significant factor propelling the demand for R1234ze. Additionally, the growing emphasis on energy efficiency and sustainability in HVAC&R systems is driving the adoption of R1234ze as a preferred refrigerant choice.

Market trends in the R1234ze industry include the increasing focus on natural refrigerants, such as HFOs, as replacements for synthetic refrigerants with high GWPs. Manufacturers are investing in research and development to improve the performance

and cost-effectiveness of R1234ze-based systems. Moreover, the trend towards energy-efficient and eco-friendly solutions is pushing the demand for R1234ze across various end-user industries, including automotive, commercial refrigeration, and industrial applications.

Regionally, leading markets for R1234ze include North America, Europe, and Asia Pacific. These regions dominate the market due to stringent regulations promoting the use of low-GWP refrigerants, coupled with a strong focus on sustainability and environmental conservation. North America is driven by regulations such as the EPA's SNAP program, while Europe is influenced by the F-Gas Regulation. In Asia Pacific, countries like China and Japan are witnessing rapid adoption of R1234ze in response to environmental concerns and regulatory mandates.

Despite its growth prospects, the market for R1234ze faces challenges such as high initial costs compared to traditional refrigerants, limited availability of servicing equipment, and the need for specialized handling due to its flammability characteristics. Manufacturers and stakeholders in the R1234ze market need to address these challenges through innovation, technology advancements, and industry collaborations to drive widespread adoption and market penetration.

This report provides a deep insight into the global R1234ze market covering all its essential aspects. This ranges from a macro overview of the market to micro details of the market size, competitive landscape, development trend, niche market, key market drivers and challenges, SWOT analysis, value chain analysis, etc.

The analysis helps the reader to shape the competition within the industries and strategies for the competitive environment to enhance the potential profit. Furthermore, it provides a simple framework for evaluating and accessing the position of the business organization. The report structure also focuses on the competitive landscape of the Global R1234ze Market, this report introduces in detail the market share, market performance, product situation, operation situation, etc. of the main players, which helps the readers in the industry to identify the main competitors and deeply understand the competition pattern of the market.

In a word, this report is a must-read for industry players, investors, researchers, consultants, business strategists, and all those who have any kind of stake or are planning to foray into the R1234ze market in any manner.

Global R1234ze Market: Market Segmentation Analysis

The research report includes specific segments by region (country), manufacturers, Type, and Application. Market segmentation creates subsets of a market based on product type, end-user or application, Geographic, and other factors. By understanding the market segments, the decision-maker can leverage this targeting in the product, sales, and marketing strategies. Market segments can power your product development cycles by informing how you create product offerings for different segments.

Key Company

Honeywell

DuPont

A-Gas

Arthur Friedrichs

Climalife

Entalpia Europe

Darment

National Refrigerants

BOC

Gas2Go

SCHIESSL

United Refrigeration

Harp International

Sichuan Erbai73du Environmental Protection Technology

Wuhan Hongde Yuexin Pharmaceutical Technology

Shanghai Yuji Sifluo

Hangzhou Icetop refrigeration

HITEMA INTERNATIONAL Srl

Linea Kryon

Westfalen Gassen Nederland

Market Segmentation (by Type)

R1234ze-E

R1234ze-Z

Market Segmentation (by Application)

Air Conditioner

Foaming Agent

Water Chillers

Heat Pumps

Others

Geographic Segmentation

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study

Neutral perspective on the market performance

Recent industry trends and developments

Competitive landscape & strategies of key players

Potential & niche segments and regions exhibiting promising growth covered

Historical, current, and projected market size, in terms of value

In-depth analysis of the R1234ze Market

Overview of the regional outlook of the R1234ze Market:

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value (USD Billion) data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division

standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the R1234ze Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 10 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 11 provides a quantitative analysis of the market size and development potential of each market segment (product type and application) in the next five years.

Chapter 12 is the main points and conclusions of the report.

Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

1.1 Market Definition and Statistical Scope of R1234ze

1.2 Key Market Segments

1.2.1 R1234ze Segment by Type

1.2.2 R1234ze Segment by Application

1.3 Methodology & Sources of Information

1.3.1 Research Methodology

1.3.2 Research Process

1.3.3 Market Breakdown and Data Triangulation

1.3.4 Base Year

1.3.5 Report Assumptions & Caveats

2 R1234ZE MARKET OVERVIEW

2.1 Global Market Overview

2.1.1 Global R1234ze Market Size (M USD) Estimates and Forecasts (2019-2032)

2.1.2 Global R1234ze Sales Estimates and Forecasts (2019-2032)

2.2 Market Segment Executive Summary

2.3 Global Market Size by Region

2.4 Macroeconomic Analysis

3 R1234ZE MARKET COMPETITIVE LANDSCAPE

3.1 Global R1234ze Sales by Manufacturers (2019-2024)

3.2 Global R1234ze Revenue Market Share by Manufacturers (2019-2024)

3.3 R1234ze Market Share by Company Type (Tier 1, Tier 2, and Tier 3)

3.4 Global R1234ze Average Price by Manufacturers (2019-2024)

3.5 Manufacturers R1234ze Sales Sites, Area Served, Product Type

3.6 R1234ze Market Competitive Situation and Trends

3.6.1 R1234ze Market Concentration Rate

3.6.2 Global 5 and 10 Largest R1234ze Players Market Share by Revenue

3.6.3 Mergers & Acquisitions, Expansion

4 R1234ZE INDUSTRY CHAIN ANALYSIS

4.1 R1234ze Industry Chain Analysis

4.2 Market Overview of Key Raw Materials

4.3 Midstream Market Analysis

4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF R1234ZE MARKET

5.1 Key Development Trends

5.2 Driving Factors

5.3 Market Challenges

5.4 Market Restraints

5.5 Industry News

5.5.1 New Product Developments

5.5.2 Mergers & Acquisitions

5.5.3 Expansions

5.5.4 Collaboration/Supply Contracts

5.6 Industry Policies

6 R1234ZE MARKET SEGMENTATION BY TYPE

6.1 Evaluation Matrix of Segment Market Development Potential (Type)

6.2 Global R1234ze Sales Market Share by Type (2019-2024)

6.3 Global R1234ze Market Size Market Share by Type (2019-2024)

6.4 Global R1234ze Price by Type (2019-2024)

7 R1234ZE MARKET SEGMENTATION BY APPLICATION

7.1 Evaluation Matrix of Segment Market Development Potential (Application)

7.2 Global R1234ze Market Sales by Application (2019-2024)

7.3 Global R1234ze Market Size (M USD) by Application (2019-2024)

7.4 Global R1234ze Sales Growth Rate by Application (2019-2024)

8 R1234ZE MARKET SALES BY REGION

8.1 Global R1234ze Sales by Region

8.1.1 Global R1234ze Sales by Region

8.1.2 Global R1234ze Sales Market Share by Region

8.2 Global R1234ze Market Size by Region

8.2.1 Global R1234ze Market Size by Region

8.2.2 Global R1234ze Market Size Market Share by Region

8.3 North America

8.3.1 North America R1234ze Sales by Country

8.3.2 North America R1234ze Market Size by Country

8.3.3 U.S. Market Overview

8.3.4 Canada Market Overview

8.3.5 Mexico Market Overview

8.4 Europe

8.4.1 Europe R1234ze Sales by Country

8.4.2 Europe R1234ze Market Size by Country

8.4.3 Germany Market Overview

8.4.4 France Market Overview

8.4.5 U.K. Market Overview

8.4.6 Italy Market Overview

8.4.7 Russia Market Overview

8.5 Asia Pacific

8.5.1 Asia Pacific R1234ze Sales by Region

8.5.2 China

8.5.3 Japan

8.5.4 South Korea

8.5.5 India

8.5.6 Southeast Asia

8.6 Asia Pacific

8.6.1 Asia Pacific R1234ze Market Size by Region

8.6.2 Asia Pacific R1234ze Market Size by Region

8.6.3 China

8.6.4 Japan

8.6.5 South Korea

8.6.6 India

8.6.7 Southeast Asia

8.7 South America

8.7.1 South America R1234ze Sales by Country

8.7.2 South America R1234ze Market Size by Country

8.7.3 Brazil

8.7.4 Argentina

8.7.5 Columbia

8.8 Middle East and Africa

8.8.1 Middle East and Africa R1234ze Sales by Region

8.8.2 Middle East and Africa R1234ze Market Size by Region

8.8.3 Saudi Arabia

- 8.8.4 UAE
- 8.8.5 Egypt
- 8.8.6 Nigeria
- 8.8.7 South Africa

9 R1234ZE MARKET PRODUCTION BY REGION

- 9.1 Global Production of R1234ze by Region (2019-2024)
- 9.2 Global R1234ze Revenue Market Share by Region (2019-2024)
- 9.3 Global R1234ze Production, Revenue, Price and Gross Margin (2019-2024)
- 9.4 North America R1234ze Production
 - 9.4.1 North America R1234ze Production Growth Rate (2019-2024)
 - 9.4.2 North America R1234ze Production, Revenue, Price and Gross Margin (2019-2024)
- 9.5 Europe R1234ze Production
 - 9.5.1 Europe R1234ze Production Growth Rate (2019-2024)
 - 9.5.2 Europe R1234ze Production, Revenue, Price and Gross Margin (2019-2024)
- 9.6 Japan R1234ze Production (2019-2024)
 - 9.6.1 Japan R1234ze Production Growth Rate (2019-2024)
 - 9.6.2 Japan R1234ze Production, Revenue, Price and Gross Margin (2019-2024)
- 9.7 China R1234ze Production (2019-2024)
 - 9.7.1 China R1234ze Production Growth Rate (2019-2024)
 - 9.7.2 China R1234ze Production, Revenue, Price and Gross Margin (2019-2024)

10 KEY COMPANIES PROFILE

- 10.1 Honeywell
 - 10.1.1 Honeywell R1234ze Basic Information
 - 10.1.2 Honeywell R1234ze Product Overview
 - 10.1.3 Honeywell R1234ze Product Market Performance
 - 10.1.4 Honeywell Business Overview
 - 10.1.5 Honeywell R1234ze SWOT Analysis
 - 10.1.6 Honeywell Recent Developments
- 10.2 DuPont
 - 10.2.1 DuPont R1234ze Basic Information
 - 10.2.2 DuPont R1234ze Product Overview
 - 10.2.3 DuPont R1234ze Product Market Performance
 - 10.2.4 DuPont Business Overview
 - 10.2.5 DuPont R1234ze SWOT Analysis

10.2.6 DuPont Recent Developments

10.3 A-Gas

10.3.1 A-Gas R1234ze Basic Information

10.3.2 A-Gas R1234ze Product Overview

10.3.3 A-Gas R1234ze Product Market Performance

10.3.4 A-Gas R1234ze SWOT Analysis

10.3.5 A-Gas Business Overview

10.3.6 A-Gas Recent Developments

10.4 Arthur Friedrichs

10.4.1 Arthur Friedrichs R1234ze Basic Information

10.4.2 Arthur Friedrichs R1234ze Product Overview

10.4.3 Arthur Friedrichs R1234ze Product Market Performance

10.4.4 Arthur Friedrichs Business Overview

10.4.5 Arthur Friedrichs Recent Developments

10.5 Climalife

10.5.1 Climalife R1234ze Basic Information

10.5.2 Climalife R1234ze Product Overview

10.5.3 Climalife R1234ze Product Market Performance

10.5.4 Climalife Business Overview

10.5.5 Climalife Recent Developments

10.6 Entalpia Europe

10.6.1 Entalpia Europe R1234ze Basic Information

10.6.2 Entalpia Europe R1234ze Product Overview

10.6.3 Entalpia Europe R1234ze Product Market Performance

10.6.4 Entalpia Europe Business Overview

10.6.5 Entalpia Europe Recent Developments

10.7 Darment

10.7.1 Darment R1234ze Basic Information

10.7.2 Darment R1234ze Product Overview

10.7.3 Darment R1234ze Product Market Performance

10.7.4 Darment Business Overview

10.7.5 Darment Recent Developments

10.8 National Refrigerants

10.8.1 National Refrigerants R1234ze Basic Information

10.8.2 National Refrigerants R1234ze Product Overview

10.8.3 National Refrigerants R1234ze Product Market Performance

10.8.4 National Refrigerants Business Overview

10.8.5 National Refrigerants Recent Developments

10.9 BOC

- 10.9.1 BOC R1234ze Basic Information
- 10.9.2 BOC R1234ze Product Overview
- 10.9.3 BOC R1234ze Product Market Performance
- 10.9.4 BOC Business Overview
- 10.9.5 BOC Recent Developments
- 10.10 Gas2Go
 - 10.10.1 Gas2Go R1234ze Basic Information
 - 10.10.2 Gas2Go R1234ze Product Overview
 - 10.10.3 Gas2Go R1234ze Product Market Performance
 - 10.10.4 Gas2Go Business Overview
 - 10.10.5 Gas2Go Recent Developments
- 10.11 SCHIESSL
 - 10.11.1 SCHIESSL R1234ze Basic Information
 - 10.11.2 SCHIESSL R1234ze Product Overview
 - 10.11.3 SCHIESSL R1234ze Product Market Performance
 - 10.11.4 SCHIESSL Business Overview
 - 10.11.5 SCHIESSL Recent Developments
- 10.12 United Refrigeration
 - 10.12.1 United Refrigeration R1234ze Basic Information
 - 10.12.2 United Refrigeration R1234ze Product Overview
 - 10.12.3 United Refrigeration R1234ze Product Market Performance
 - 10.12.4 United Refrigeration Business Overview
 - 10.12.5 United Refrigeration Recent Developments
- 10.13 Harp International
 - 10.13.1 Harp International R1234ze Basic Information
 - 10.13.2 Harp International R1234ze Product Overview
 - 10.13.3 Harp International R1234ze Product Market Performance
 - 10.13.4 Harp International Business Overview
 - 10.13.5 Harp International Recent Developments
- 10.14 Sichuan Erbai73du Environmental Protection Technology
 - 10.14.1 Sichuan Erbai73du Environmental Protection Technology R1234ze Basic Information
 - 10.14.2 Sichuan Erbai73du Environmental Protection Technology R1234ze Product Overview
 - 10.14.3 Sichuan Erbai73du Environmental Protection Technology R1234ze Product Market Performance
 - 10.14.4 Sichuan Erbai73du Environmental Protection Technology Business Overview
 - 10.14.5 Sichuan Erbai73du Environmental Protection Technology Recent Developments

10.15 Wuhan Hongde Yuexin Pharmaceutical Technology

10.15.1 Wuhan Hongde Yuexin Pharmaceutical Technology R1234ze Basic Information

10.15.2 Wuhan Hongde Yuexin Pharmaceutical Technology R1234ze Product Overview

10.15.3 Wuhan Hongde Yuexin Pharmaceutical Technology R1234ze Product Market Performance

10.15.4 Wuhan Hongde Yuexin Pharmaceutical Technology Business Overview

10.15.5 Wuhan Hongde Yuexin Pharmaceutical Technology Recent Developments

10.16 Shanghai Yuji Sifluo

10.16.1 Shanghai Yuji Sifluo R1234ze Basic Information

10.16.2 Shanghai Yuji Sifluo R1234ze Product Overview

10.16.3 Shanghai Yuji Sifluo R1234ze Product Market Performance

10.16.4 Shanghai Yuji Sifluo Business Overview

10.16.5 Shanghai Yuji Sifluo Recent Developments

10.17 Hangzhou Ictop refrigeration

10.17.1 Hangzhou Ictop refrigeration R1234ze Basic Information

10.17.2 Hangzhou Ictop refrigeration R1234ze Product Overview

10.17.3 Hangzhou Ictop refrigeration R1234ze Product Market Performance

10.17.4 Hangzhou Ictop refrigeration Business Overview

10.17.5 Hangzhou Ictop refrigeration Recent Developments

10.18 HITEMA INTERNATIONAL Srl

10.18.1 HITEMA INTERNATIONAL Srl R1234ze Basic Information

10.18.2 HITEMA INTERNATIONAL Srl R1234ze Product Overview

10.18.3 HITEMA INTERNATIONAL Srl R1234ze Product Market Performance

10.18.4 HITEMA INTERNATIONAL Srl Business Overview

10.18.5 HITEMA INTERNATIONAL Srl Recent Developments

10.19 Linea Kryon

10.19.1 Linea Kryon R1234ze Basic Information

10.19.2 Linea Kryon R1234ze Product Overview

10.19.3 Linea Kryon R1234ze Product Market Performance

10.19.4 Linea Kryon Business Overview

10.19.5 Linea Kryon Recent Developments

10.20 Westfalen Gassen Nederland

10.20.1 Westfalen Gassen Nederland R1234ze Basic Information

10.20.2 Westfalen Gassen Nederland R1234ze Product Overview

10.20.3 Westfalen Gassen Nederland R1234ze Product Market Performance

10.20.4 Westfalen Gassen Nederland Business Overview

10.20.5 Westfalen Gassen Nederland Recent Developments

11 R1234ZE MARKET FORECAST BY REGION

11.1 Global R1234ze Market Size Forecast

11.2 Global R1234ze Market Forecast by Region

11.2.1 North America Market Size Forecast by Country

11.2.2 Europe R1234ze Market Size Forecast by Country

11.2.3 Asia Pacific R1234ze Market Size Forecast by Region

11.2.4 South America R1234ze Market Size Forecast by Country

11.2.5 Middle East and Africa Forecasted Sales of R1234ze by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2025-2032)

12.1 Global R1234ze Market Forecast by Type (2025-2032)

12.1.1 Global Forecasted Sales of R1234ze by Type (2025-2032)

12.1.2 Global R1234ze Market Size Forecast by Type (2025-2032)

12.1.3 Global Forecasted Price of R1234ze by Type (2025-2032)

12.2 Global R1234ze Market Forecast by Application (2025-2032)

12.2.1 Global R1234ze Sales (K MT) Forecast by Application

12.2.2 Global R1234ze Market Size (M USD) Forecast by Application (2025-2032)

13 CONCLUSION AND KEY FINDINGS

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