

Global Chlorotrifluoroethylene (CTFE) Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Chlorotrifluoroethylene (CTFE) market size was valued at US\$ 210 million in 2024 and is forecast to a readjusted size of USD 260 million by 2031 with a CAGR of 3.1% during review period.

Chlorotrifluoroethylene is a colorless gas at room temperature and pressure. It is fairly toxic with an LC50 (rat) at 4-hour exposure and a concentration of 4000 ppm. It has a critical temperature and pressure of 105.8 °C and 4.03 MPa. Oxygen and liquid CTFE react and form peroxides at fairly low temperatures. A number of oxygenated products, such as chlorodifluoroacetylfluoride, are generated by oxidation of CTFE. The same reaction can occur photochemically in the vapor phase. Chlorotrifluoroethylene oxide is a by-product of this reaction. The peroxides act as initiators for the polymerization of CTFE, which can occur violently.

The largest producers of Chlorotrifluoroethylene in the worldwide are Honeywell, Daikin, Jiangsu Bluestar and Hongjia Fluorine Technology, which takes a combined share of 93%. The largest producing area of Chlorotrifluoroethylene is USA, accounting about 46% of Global production.

Chlorotrifluoroethylene can be used in various fields, like Resin and Refrigerant, etc. Resin is the largest application of Chlorotrifluoroethylene, with market share of 70%. Chlorotrifluoroethylene can be classified as Purity 99.9% and Purity 99.5%. Purity 99% is the major kind of Chlorotrifluoroethylene due to its stable quality and reasonable price. The market of Purity 99.9% is still in its emerging stage, with a global market share of 75%.

This report is a detailed and comprehensive analysis for global Chlorotrifluoroethylene (CTFE) 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 Chlorotrifluoroethylene (CTFE) market size and forecasts, in consumption value (\$ Million), sales quantity (MT), and average selling prices (USD/MT), 2020-2031

Global Chlorotrifluoroethylene (CTFE) market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (MT), and average selling prices (USD/MT), 2020-2031

Global Chlorotrifluoroethylene (CTFE) market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (MT), and average selling prices (USD/MT), 2020-2031

Global Chlorotrifluoroethylene (CTFE) market shares of main players, shipments in revenue (\$ Million), sales quantity (MT), and ASP (USD/MT), 2020-2025

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 Chlorotrifluoroethylene (CTFE)

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 Chlorotrifluoroethylene (CTFE) 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 Honeywell, Daikin, Jiangsu Bluestar, Hongjia Fluorine Technology, etc.

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

Market Segmentation

Chlorotrifluoroethylene (CTFE) market is split by Type and by Application. For the period 2020-2031, 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

Purity 99.9%

Purity 99.5%

Market segment by Application

Resin

Refrigerant

Others

Major players covered

Honeywell

Daikin

Jiangsu Bluestar

Hongjia Fluorine Technology

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 Chlorotrifluoroethylene (CTFE) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Chlorotrifluoroethylene (CTFE), with price, sales quantity, revenue, and global market share of Chlorotrifluoroethylene (CTFE) from 2020 to 2025.

Chapter 3, the Chlorotrifluoroethylene (CTFE) competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Chlorotrifluoroethylene (CTFE) breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025. and Chlorotrifluoroethylene (CTFE) market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Chlorotrifluoroethylene (CTFE).

Chapter 14 and 15, to describe Chlorotrifluoroethylene (CTFE) sales channel, distributors, customers, research findings and conclusion.

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