

# Global Fluorine Gas (F2) Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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## Abstracts

According to our (Global Info Research) latest study, the global Fluorine Gas (F2) market size was valued at USD 284.8 million in 2023 and is forecast to a readjusted size of USD 344 million by 2030 with a CAGR of 2.7% during review period.

Fluorine is a chemical element with the symbol F and atomic number 9. It is the lightest halogen and exists as a highly toxic pale yellow diatomic gas at standard conditions. As the most electronegative element, it is extremely reactive, as it reacts with almost all other elements, except for helium and neon. Fluorine is a pale-yellow gas with a particularly unpleasant odor. It condenses into a yellow liquid below  $-188.1^{\circ}\text{C}$  and yellow crystal at  $-219.62^{\circ}\text{C}$ . This report studies gas phase Fluorine, it is used for electronics industry and chemical industry usually. Fluorine is produced by electrolyzing a solution of potassium fluoride in anhydrous hydrogen fluoride. It is used as chemical feedstock for a variety of fluorinated compounds such as sulfur hexafluoride, nitrogen trifluoride, boron trifluoride, tungsten hexafluoride, etc. Fluorine is used for CVD chamber cleaning in semiconductor, LCD, and solar manufacturing. It can be used either thermally or with plasma due to its low decomposition energy. Fluorine has zero GWP; along with cleaning performance, reduced global warming emissions can be a driver for the use.

Global key players of fluorine gas (F2) include Linde, Solvay, Air Products, etc. The top three players hold a share about 78%. Asia-Pacific is the largest market, has a share about 64%, followed by Americas and Europe, with share 18% and 17%, separately.

The Global Info Research report includes an overview of the development of the Fluorine Gas (F2) industry chain, the market status of Electronics Industry (Industrial Grade Fluorine Gas, Electronic Grade Fluorine Gas), Solar Cells (Industrial Grade

Fluorine Gas, Electronic Grade Fluorine Gas), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Fluorine Gas (F2).

Regionally, the report analyzes the Fluorine Gas (F2) markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Fluorine Gas (F2) market, with robust domestic demand, supportive policies, and a strong manufacturing base.

#### Key Features:

The report presents comprehensive understanding of the Fluorine Gas (F2) market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Fluorine Gas (F2) industry.

The report involves analyzing the market at a macro level:

**Market Sizing and Segmentation:** Report collect data on the overall market size, including the sales quantity (MT), revenue generated, and market share of different by Type (e.g., Industrial Grade Fluorine Gas, Electronic Grade Fluorine Gas).

**Industry Analysis:** Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Fluorine Gas (F2) market.

**Regional Analysis:** The report involves examining the Fluorine Gas (F2) market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

**Market Projections:** Report covers the gathered data and analysis to make future projections and forecasts for the Fluorine Gas (F2) market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Fluorine Gas (F2):

**Company Analysis:** Report covers individual Fluorine Gas (F2) manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

**Consumer Analysis:** Report covers data on consumer behaviour, preferences, and attitudes towards Fluorine Gas (F2). This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Electronics Industry, Solar Cells).

**Technology Analysis:** Report covers specific technologies relevant to Fluorine Gas (F2). It assesses the current state, advancements, and potential future developments in Fluorine Gas (F2) areas.

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Fluorine Gas (F2) market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

**Market Validation:** The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

## Market Segmentation

Fluorine Gas (F2) market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

### Market segment by Type

Industrial Grade Fluorine Gas

Electronic Grade Fluorine Gas

### Market segment by Application

Electronics Industry

Solar Cells

Chemicals Production

Others

#### Major players covered

Linde

Solvay

Air Products

Kanto Denka

Hyosung Chemical

Zhuoxi Gas

Central Glass

#### 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 Fluorine Gas (F2) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Fluorine Gas (F2), with price, sales, revenue and global market share of Fluorine Gas (F2) from 2019 to 2024.

Chapter 3, the Fluorine Gas (F2) competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Fluorine Gas (F2) breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

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 2017 to 2023. and Fluorine Gas (F2) market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

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 Fluorine Gas (F2).

Chapter 14 and 15, to describe Fluorine Gas (F2) sales channel, distributors, customers, research findings and conclusion.

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