

Fluorine Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Product (Fluorite, Cryolite, Fluorapatite, Others), By Application (Pharmaceuticals, Pesticides, Plastic, Electronic Cleaning, Others), By Region and Competition, 2019-2029F

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Report description:

Global Fluorine Market was valued at USD 712.36 Million in 2023 and is expected to reach USD 910.81 Million by 2029 with a CAGR of 4.38% during the forecast period. As a versatile chemical element, fluorine plays a critical role in the production of a wide range of products, from high-performance materials to specialty chemicals.

The increasing demand for fluorinated products, particularly in the pharmaceutical and agrochemical sectors, has been a significant driver of market growth. Fluorinated compounds exhibit enhanced efficacy and stability, making them desirable for various applications. As industries move towards more sustainable practices, there is a growing emphasis on developing eco-friendly fluorinated compounds. Companies are investing in research and development to create alternatives that minimize environmental impact while maintaining performance.

Fluorinated compounds, particularly hydrofluorocarbons (HFCs), have been associated with environmental issues, including ozone depletion and greenhouse gas emissions. This has led to increased scrutiny and regulatory pressure, driving the need for more sustainable alternatives. The fluorine market is susceptible to fluctuations in the prices of raw materials used in the production of fluorinated compounds. Price volatility can affect profit margins and hinder long-term planning for manufacturers.

Key Market Drivers

Growing Demand of Fluorine in Pharmaceutical Industry

Fluorine is increasingly recognized for its ability to modify the chemical properties of organic molecules. Its incorporation into drug design can significantly enhance the pharmacological properties of compounds, including their potency, selectivity, and metabolic stability. This is particularly important in the pharmaceutical industry, where the efficacy of a drug can be drastically improved through the addition of fluorine.

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The successful clinical application of fluoro-pharmaceuticals has spurred numerous initiatives aimed at developing new fluorine-containing compounds. A notable example of a bioactive fluorinated compound is 5-Fluorouracil, which disrupts DNA synthesis by inhibiting the activity of thymidylate synthase.

Fluorinated compounds often exhibit increased lipophilicity, allowing for better membrane penetration and improved bioavailability. Additionally, the presence of fluorine can enhance the stability of pharmaceuticals against metabolic degradation, extending their therapeutic lifespan. As a result, fluorinated drugs have become essential in various therapeutic areas, including oncology, cardiovascular diseases, and infectious diseases.

The increasing focus on targeted therapies and personalized medicine is another factor driving the demand for fluorine in the pharmaceutical sector. As healthcare moves towards more individualized treatment plans, the need for innovative and effective drug formulations becomes paramount. Fluorine-containing compounds have shown great promise in this regard, providing a pathway for developing highly selective and targeted therapies.

For instance, many modern anticancer agents are fluorinated, allowing for precise targeting of cancer cells while minimizing effects on healthy tissue. The ability to design drugs that are more effective and have fewer side effects aligns with the growing trend toward personalized medicine, thereby driving the demand for fluorine in drug development.

The pharmaceutical industry is currently witnessing an expansion in the pipeline of fluorinated drugs. Research and development efforts are increasingly focusing on synthesizing new fluorinated compounds to address unmet medical needs. This trend is fueled by advancements in synthetic methodologies, which enable the efficient incorporation of fluorine into complex organic molecules. As more pharmaceutical companies invest in the development of fluorinated products, the demand for fluorine is expected to rise. Moreover, the successful commercialization of new fluorinated drugs not only highlights the versatility of fluorine in drug design but also emphasizes its significance in the overall growth of the pharmaceutical market.

Growing Demand of Fluorine in Agriculture Industry

Fluorine is increasingly recognized for its essential role in the formulation of agrochemicals, including herbicides, fungicides, and insecticides. Fluorinated compounds are known to exhibit enhanced biological activity, stability, and selectivity compared to their non-fluorinated counterparts. These properties make fluorine-containing agrochemicals more effective in pest and weed control, leading to improved agricultural productivity. As farmers and agricultural producers seek innovative solutions to combat pests and diseases, the demand for fluorine-based agrochemicals is expected to rise.

The world's population is projected to reach approximately 9.7 billion by 2050, intensifying the need for increased agricultural production. This growing population necessitates higher food production to ensure food security, pushing farmers to adopt advanced agricultural practices and technologies. Fluorine-based agrochemicals can significantly enhance crop yields, allowing farmers to meet the increasing demand for food. As the agricultural sector adapts to these challenges, the use of fluorine in various agrochemical formulations will continue to grow, further driving the global fluorine market.

Sustainability is becoming a critical focus in agriculture, with an increasing emphasis on environmentally friendly practices. Fluorinated agrochemicals often require lower application rates and can reduce the overall environmental impact associated with agricultural practices. By improving the efficiency of pest and weed control, fluorine-containing products contribute to sustainable agricultural practices while minimizing the use of harmful chemicals. As more farmers and agricultural companies prioritize sustainability, the demand for fluorine in agrochemicals is expected to increase, aligning with global sustainability goals.

Innovations in agrochemical formulation technologies are also propelling the demand for fluorine. Research and development efforts are focused on creating novel fluorinated compounds with improved efficacy and reduced environmental impact. These advancements enhance the performance of agrochemicals, making them more attractive to agricultural producers. The continuous innovation in the field of agrochemicals is likely to spur further demand for fluorine, as manufacturers seek to develop new and improved products that leverage the unique properties of fluorinated compounds.

Key Market Challenges

Limited Availability of Raw Materials

The primary source of fluorine is fluorite (calcium fluoride), a naturally occurring mineral. The geographical distribution of fluorite deposits is limited, with significant reserves found primarily in countries like China, Mexico, and South Africa. As demand increases, these deposits may become depleted, leading to a supply crunch. Additionally, the extraction of fluorite is often hindered by environmental regulations, limiting the availability of this critical raw material.

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The rising demand for fluorinated compounds across various sectors has led to heightened competition for raw materials. Industries such as pharmaceuticals and electronics are competing for the same limited sources of fluorite, driving up prices and exacerbating supply constraints. This competition creates tension in the market, affecting manufacturers' ability to secure the necessary materials for production.

The production and processing of fluorine and its compounds are subject to stringent environmental regulations due to the potential hazards associated with their use. These regulations can lead to increased costs and limited production capabilities for companies. In many cases, manufacturers may be forced to halt or reduce operations if they cannot meet regulatory requirements, further straining the availability of raw materials.

Global events such as the COVID-19 pandemic and geopolitical tensions have highlighted vulnerabilities in supply chains for raw materials. Disruptions in transportation, trade restrictions, and logistical challenges can significantly impact the availability of fluorite and other essential materials. These disruptions lead to uncertainty in the market, making it difficult for manufacturers to maintain consistent production levels.

Key Market Trends

Advancement in the Production of Fluorine

Recent innovations in fluorine production technologies are reshaping the landscape of the global fluorine market. Traditional methods of fluorine production, primarily through the electrolysis of potassium fluoride or calcium fluoride, are being enhanced to improve efficiency, reduce costs, and minimize environmental impact.

Newer processes, such as the development of advanced electrochemical techniques and alternative fluorination reactions, are gaining traction. These methods enable the production of fluorine with higher purity levels and yield rates while decreasing energy consumption. The implementation of more efficient technologies not only optimizes production but also aligns with global sustainability goals.

In May 2023, a research team led by Professor Dong-Pyo Kim and Jeong-Un Joo from the Department of Chemical Engineering at POSTECH, alongside Professor Heejin Kim and Hyune-Jea Lee, currently a researcher at Samsung Advanced Institute of Technology, from the Department of Chemistry at Korea University, successfully developed a novel method for synthesizing trifluoromethyl intermediates (-CF₃) from fluoroform (CHF₃). This innovative approach employs a specialized reactor designed to achieve ultra-fast mixing of gas and liquid. The method presents promising opportunities for the synthesis of new fluorine-based pharmaceuticals.

Fluorine production poses significant safety challenges due to its highly reactive nature and toxicity. Recent advancements have focused on enhancing safety measures within production facilities. Improved containment systems, automation, and monitoring technologies have been introduced to mitigate risks associated with fluorine handling and production.

By prioritizing safety, manufacturers can operate more efficiently and reduce downtime caused by accidents or safety violations. This commitment to safety fosters a more stable production environment, contributing to the overall growth and reliability of the fluorine market.

As environmental concerns gain prominence, sustainability initiatives are becoming a crucial aspect of fluorine production. The industry is increasingly adopting practices that reduce carbon emissions and waste generation. Innovations in recycling and recovery processes for fluorinated byproducts are also on the rise.

For instance, the development of technologies that allow for the capture and reuse of fluorinated gases can significantly decrease the environmental impact of fluorine production. These sustainable practices not only comply with regulatory standards but also appeal to environmentally conscious consumers, driving further demand for fluorine products in various sectors.

Segmental Insights

Product Insights

Based on Product, Fluorite have emerged as the fastest growing segment in the Global Fluorine Market in 2023. Fluorite deposits are geographically concentrated, primarily in regions like China, Mexico, and South Africa. As global supply chains are tested by geopolitical tensions and trade disputes, the need for reliable sources of fluorite has become more pronounced. Companies are increasingly focused on securing stable supplies of fluorite to mitigate risks associated with potential disruptions. This urgency has accelerated investments in fluorite mining and exploration, contributing to its rapid growth.

As industries increasingly prioritize sustainability, fluorite stands out as a more environmentally friendly option compared to some

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synthetic alternatives. The extraction and processing of fluorite generally have a lower environmental impact, making it an attractive choice for companies committed to reducing their carbon footprints. Moreover, innovations in mining and processing techniques are helping to minimize waste and enhance the sustainability of fluorite production, further driving its growth. Advancements in processing technologies have improved the efficiency of extracting and refining fluorine from fluorite. New methods have been developed to enhance recovery rates and reduce energy consumption during production. These technological improvements make fluorite a more economically viable option, encouraging manufacturers to favor it over alternative raw materials, thus boosting its market share.

Application Insights

Based on Application, Plastic have emerged as the fastest growing segment in the Global Fluorine Market during the forecast period. Fluorinated polymers, such as polytetrafluoroethylene (PTFE) and fluorinated ethylene propylene (FEP), have gained popularity due to their unique properties, including chemical resistance, thermal stability, and low friction. These characteristics make fluorinated plastics ideal for a wide range of applications, from industrial coatings to electrical insulation and gaskets. As industries continue to seek materials that can withstand harsh environments and demanding conditions, the demand for fluorinated polymers has surged. This growing demand is a significant driver of the fluorine market, as manufacturers look to produce more fluorinated plastics to meet the specific needs of their customers.

Fluorine enhances the performance of plastics by improving their mechanical, thermal, and chemical properties. Fluorinated plastics exhibit superior resistance to solvents, acids, and bases, making them suitable for use in chemical processing, pharmaceuticals, and food packaging. Additionally, their low surface energy leads to non-stick properties, which are advantageous in various applications.

The versatility of fluorinated plastics allows them to be tailored for specific end-use applications, further driving their adoption across multiple sectors. As businesses increasingly prioritize high-performance materials, the role of fluorinated plastics in meeting these demands continues to expand, leading to rapid growth in this segment of the fluorine market.

Regional Insights

Based on Region, North America have emerged as the dominating region in the Global Fluorine Market in 2023. North America boasts a well-established industrial base, particularly in sectors such as chemicals, pharmaceuticals, and agrochemicals, where fluorine plays a crucial role. The presence of major manufacturers and innovative companies in these industries fosters a high demand for fluorine and its derivatives. As industries seek to enhance product performance, fluorine's unique properties make it an indispensable component in various applications, driving growth in the regional market.

The region is a leader in research and development, particularly in the field of fluorinated compounds. North American companies and research institutions are at the forefront of developing innovative fluorine-based products that cater to evolving market needs. This focus on technological advancements not only enhances the performance and efficiency of fluorine applications but also positions the region as a hub for innovation in the global market. The continuous influx of new products and technologies strengthens North America's competitive edge.

Fluorine is increasingly being recognized for its versatility across a range of industries, including electronics, automotive, and healthcare. The demand for fluorine-based products in advanced applications such as specialty chemicals, refrigerants, and pharmaceuticals is on the rise. North American manufacturers are leveraging this growing demand by producing a wide array of fluorine derivatives that meet the specific requirements of various sectors. This diversification of applications contributes significantly to the region's market leadership.

Key Market Players

□□Solvay S.A.

□□Pelchem SOC Ltd

□□Kanto Denka Kogyo Co., Ltd.

□□Linde PLC

□□NAVIN FLUORINE INTERNATIONAL LIMITED

□□Advance Research Chemicals, Inc.

□□DAIKIN INDUSTRIES, Ltd.

□□Arkema S.A.

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Honeywell International Inc.

The Chemours Company

Report Scope

In this report, the Global Fluorine Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Fluorine Market, By Product:

Fluorite

Cryolite

Fluorapatite

Others

Fluorine Market, By Application:

Pharmaceuticals

Pesticides

Plastic

Electronic Cleaning

Others

Fluorine Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Fluorine Market.

Available Customizations:

Global Fluorine Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

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□ Detailed analysis and profiling of additional market players (up to five).

Table of Contents:

1. Product Overview
 - 1.1. Market Definition
 - 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
 - 1.2.3. Key Market Segmentations
2. Research Methodology
 - 2.1. Objective of the Study
 - 2.2. Baseline Methodology
 - 2.3. Key Industry Partners
 - 2.4. Major Association and Secondary Sources
 - 2.5. Forecasting Methodology
 - 2.6. Data Triangulation & Validation
 - 2.7. Assumptions and Limitations
3. Executive Summary
 - 3.1. Overview of the Market
 - 3.2. Overview of Key Market Segmentations
 - 3.3. Overview of Key Market Players
 - 3.4. Overview of Key Regions/Countries
 - 3.5. Overview of Market Drivers, Challenges, and Trends
4. Impact of COVID-19 on Global Fluorine Market
5. Global Fluorine Market Outlook
 - 5.1. Market Size & Forecast
 - 5.1.1. By Value & Volume
 - 5.2. Market Share & Forecast
 - 5.2.1. By Product (Fluorite, Cryolite, Fluorapatite, Others)
 - 5.2.2. By Application (Pharmaceuticals, Pesticides, Plastic, Electronic Cleaning, Others)
 - 5.2.3. By Region
 - 5.2.4. By Company (2023)
 - 5.3. Market Map
6. North America Fluorine Market Outlook
 - 6.1. Market Size & Forecast
 - 6.1.1. By Value & Volume
 - 6.2. Market Share & Forecast
 - 6.2.1. By Product
 - 6.2.2. By Application
 - 6.2.3. By Country
 - 6.3. North America: Country Analysis
 - 6.3.1. United States Fluorine Market Outlook
 - 6.3.1.1. Market Size & Forecast
 - 6.3.1.1.1. By Value & Volume
 - 6.3.1.2. Market Share & Forecast
 - 6.3.1.2.1. By Product
 - 6.3.1.2.2. By Application

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- 6.3.2. Mexico Fluorine Market Outlook
 - 6.3.2.1. Market Size & Forecast
 - 6.3.2.1.1. By Value & Volume
 - 6.3.2.2. Market Share & Forecast
 - 6.3.2.2.1. By Product
 - 6.3.2.2.2. By Application
- 6.3.3. Canada Fluorine Market Outlook
 - 6.3.3.1. Market Size & Forecast
 - 6.3.3.1.1. By Value & Volume
 - 6.3.3.2. Market Share & Forecast
 - 6.3.3.2.1. By Product
 - 6.3.3.2.2. By Application
- 7. Europe Fluorine Market Outlook
 - 7.1. Market Size & Forecast
 - 7.1.1. By Value & Volume
 - 7.2. Market Share & Forecast
 - 7.2.1. By Product
 - 7.2.2. By Application
 - 7.2.3. By Country
 - 7.3. Europe: Country Analysis
 - 7.3.1. France Fluorine Market Outlook
 - 7.3.1.1. Market Size & Forecast
 - 7.3.1.1.1. By Value & Volume
 - 7.3.1.2. Market Share & Forecast
 - 7.3.1.2.1. By Product
 - 7.3.1.2.2. By Application
 - 7.3.2. Germany Fluorine Market Outlook
 - 7.3.2.1. Market Size & Forecast
 - 7.3.2.1.1. By Value & Volume
 - 7.3.2.2. Market Share & Forecast
 - 7.3.2.2.1. By Product
 - 7.3.2.2.2. By Application
 - 7.3.3. United Kingdom Fluorine Market Outlook
 - 7.3.3.1. Market Size & Forecast
 - 7.3.3.1.1. By Value & Volume
 - 7.3.3.2. Market Share & Forecast
 - 7.3.3.2.1. By Product
 - 7.3.3.2.2. By Application
 - 7.3.4. Italy Fluorine Market Outlook
 - 7.3.4.1. Market Size & Forecast
 - 7.3.4.1.1. By Value & Volume
 - 7.3.4.2. Market Share & Forecast
 - 7.3.4.2.1. By Product
 - 7.3.4.2.2. By Application
 - 7.3.5. Spain Fluorine Market Outlook
 - 7.3.5.1. Market Size & Forecast
 - 7.3.5.1.1. By Value & Volume

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- 7.3.5.2. Market Share & Forecast
 - 7.3.5.2.1. By Product
 - 7.3.5.2.2. By Application
- 8. Asia Pacific Fluorine Market Outlook
 - 8.1. Market Size & Forecast
 - 8.1.1. By Value & Volume
 - 8.2. Market Share & Forecast
 - 8.2.1. By Product
 - 8.2.2. By Application
 - 8.2.3. By Country
 - 8.3. Asia Pacific: Country Analysis
 - 8.3.1. China Fluorine Market Outlook
 - 8.3.1.1. Market Size & Forecast
 - 8.3.1.1.1. By Value & Volume
 - 8.3.1.2. Market Share & Forecast
 - 8.3.1.2.1. By Product
 - 8.3.1.2.2. By Application
 - 8.3.2. India Fluorine Market Outlook
 - 8.3.2.1. Market Size & Forecast
 - 8.3.2.1.1. By Value & Volume
 - 8.3.2.2. Market Share & Forecast
 - 8.3.2.2.1. By Product
 - 8.3.2.2.2. By Application
 - 8.3.3. South Korea Fluorine Market Outlook
 - 8.3.3.1. Market Size & Forecast
 - 8.3.3.1.1. By Value & Volume
 - 8.3.3.2. Market Share & Forecast
 - 8.3.3.2.1. By Product
 - 8.3.3.2.2. By Application
 - 8.3.4. Japan Fluorine Market Outlook
 - 8.3.4.1. Market Size & Forecast
 - 8.3.4.1.1. By Value & Volume
 - 8.3.4.2. Market Share & Forecast
 - 8.3.4.2.1. By Product
 - 8.3.4.2.2. By Application
 - 8.3.5. Australia Fluorine Market Outlook
 - 8.3.5.1. Market Size & Forecast
 - 8.3.5.1.1. By Value & Volume
 - 8.3.5.2. Market Share & Forecast
 - 8.3.5.2.1. By Product
 - 8.3.5.2.2. By Application
- 9. South America Fluorine Market Outlook
 - 9.1. Market Size & Forecast
 - 9.1.1. By Value & Volume
 - 9.2. Market Share & Forecast
 - 9.2.1. By Product
 - 9.2.2. By Application

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- 9.2.3. By Country
- 9.3. South America: Country Analysis
 - 9.3.1. Brazil Fluorine Market Outlook
 - 9.3.1.1. Market Size & Forecast
 - 9.3.1.1.1. By Value & Volume
 - 9.3.1.2. Market Share & Forecast
 - 9.3.1.2.1. By Product
 - 9.3.1.2.2. By Application
 - 9.3.2. Argentina Fluorine Market Outlook
 - 9.3.2.1. Market Size & Forecast
 - 9.3.2.1.1. By Value & Volume
 - 9.3.2.2. Market Share & Forecast
 - 9.3.2.2.1. By Product
 - 9.3.2.2.2. By Application
 - 9.3.3. Colombia Fluorine Market Outlook
 - 9.3.3.1. Market Size & Forecast
 - 9.3.3.1.1. By Value & Volume
 - 9.3.3.2. Market Share & Forecast
 - 9.3.3.2.1. By Product
 - 9.3.3.2.2. By Application
- 10. Middle East and Africa Fluorine Market Outlook
 - 10.1. Market Size & Forecast
 - 10.1.1. By Value & Volume
 - 10.2. Market Share & Forecast
 - 10.2.1. By Product
 - 10.2.2. By Application
 - 10.2.3. By Country
 - 10.3. MEA: Country Analysis
 - 10.3.1. South Africa Fluorine Market Outlook
 - 10.3.1.1. Market Size & Forecast
 - 10.3.1.1.1. By Value & Volume
 - 10.3.1.2. Market Share & Forecast
 - 10.3.1.2.1. By Product
 - 10.3.1.2.2. By Application
 - 10.3.2. Saudi Arabia Fluorine Market Outlook
 - 10.3.2.1. Market Size & Forecast
 - 10.3.2.1.1. By Value & Volume
 - 10.3.2.2. Market Share & Forecast
 - 10.3.2.2.1. By Product
 - 10.3.2.2.2. By Application
 - 10.3.3. UAE Fluorine Market Outlook
 - 10.3.3.1. Market Size & Forecast
 - 10.3.3.1.1. By Value & Volume
 - 10.3.3.2. Market Share & Forecast
 - 10.3.3.2.1. By Product
 - 10.3.3.2.2. By Application
- 11. Market Dynamics

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- 11.1. Drivers
- 11.2. Challenges
- 12. Market Trends & Developments
 - 12.1. Merger & Acquisition (If Any)
 - 12.2. Product Launches (If Any)
 - 12.3. Recent Developments
- 13. Global Fluorine Market: SWOT Analysis
- 14. Porters Five Forces Analysis
 - 14.1. Competition in the Industry
 - 14.2. Potential of New Entrants
 - 14.3. Power of Suppliers
 - 14.4. Power of Customers
 - 14.5. Threat of Substitute Products
- 15. Competitive Landscape
 - 15.1. Solvay S.A.
 - 15.1.1. Business Overview
 - 15.1.2. Company Snapshot
 - 15.1.3. Products & Services
 - 15.1.4. Financials (As Reported)
 - 15.1.5. Recent Developments
 - 15.1.6. Key Personnel Details
 - 15.1.7. SWOT Analysis
 - 15.2. Pelchem SOC Ltd
 - 15.3. Kanto Denka Kogyo Co., Ltd.
 - 15.4. Linde PLC
 - 15.5. NAVIN FLUORINE INTERNATIONAL LIMITED
 - 15.6. Advance Research Chemicals, Inc.
 - 15.7. DAIKIN INDUSTRIES, Ltd.
 - 15.8. Arkema S.A.
 - 15.9. Honeywell International Inc.
 - 15.10. The Chemours Company
- 16. Strategic Recommendations
- 17. About Us & Disclaimer

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