

Global Fluorine 18 Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Fluorine 18 market size is expected to reach \$ 161 million by 2032, rising at a market growth of 6.5% CAGR during the forecast period (2026-2032).

Fluorine-18 is a radioisotope of fluorine that decays by positron emission with a half-life of approximately 109.8 minutes. Due to its relatively short half-life and the favorable physical characteristics of its decay, it is the most widely used radionuclide in Positron Emission Tomography (PET) scanning. It is frequently incorporated into radiopharmaceuticals, such as Fluorodeoxyglucose (FDG), to image metabolic activity in the human body, particularly for the diagnosis and staging of cancer and the evaluation of neurological disorders. In 2025, global Fluorine-18 production reached approximately 2 million GBq, and average price was 50 USD/GBq with gross margin 60%

The global market for Fluorine-18 is currently undergoing a period of robust structural transformation, propelled by the convergence of personalized medicine, technological innovation in imaging, and an aging global population prone to oncological and neurological conditions. As the cornerstone radionuclide for Positron Emission Tomography (PET), Fluorine-18's utility is underpinned by its near-ideal physical half-life of approximately 109.8 minutes, which balances the logistics of regional distribution with the clinical necessity for patient throughput. Market expansion is being fueled by several critical levers: first, the transition from traditional, glucose-based metabolism imaging (FDG) to highly specific, 'smart' radiotracers targeting receptors such as PSMA for prostate cancer or amyloid plaques for Alzheimer's disease. Second, the democratization of nuclear medicine is occurring through the deployment of decentralized, hospital-based medical cyclotrons, which mitigate supply chain bottlenecks inherent to short-lived isotopes. Third, the rise of the 'theranostics'

paradigm?linking diagnostic imaging with targeted radionuclide therapy?is cementing F18's role as a non-negotiable diagnostic pillar. While North America and Western Europe maintain market leadership due to high-tier reimbursement policies, the Asia-Pacific region is emerging as the primary engine for future growth, characterized by rapid infrastructure investment and a shift toward domestic radio-pharmaceutical manufacturing. Looking ahead, the integration of Artificial Intelligence for quantitative PET analysis and the standardization of automated radiochemistry modules are expected to further reduce operational costs and enhance diagnostic precision.

This report studies the global Fluorine 18 production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Fluorine 18 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 Fluorine 18 that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Fluorine 18 total production and demand, 2021-2032, (GBq)

Global Fluorine 18 total production value, 2021-2032, (USD Million)

Global Fluorine 18 production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (GBq), (based on production site)

Global Fluorine 18 consumption by region & country, CAGR, 2021-2032 & (GBq)

U.S. VS China: Fluorine 18 domestic production, consumption, key domestic manufacturers and share

Global Fluorine 18 production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (GBq)

Global Fluorine 18 production by Type, production, value, CAGR, 2021-2032, (USD Million) & (GBq)

Global Fluorine 18 production by Application, production, value, CAGR, 2021-2032, (USD Million) & (GBq)

This report profiles key players in the global Fluorine 18 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 ANSTO, Rosatom, Eckert & Ziegler, CNNC, Curium Pharma, GE HealthCare, Jubilant Radiopharma, Cardinal Health, IBA, Sumitomo Heavy Industries, 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 Fluorine 18 market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (GBq) and average price (US/GBq) 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 Fluorine 18 Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Fluorine 18 Market, Segmentation by Type:

Nucleophilic Labeling

Electrophilic Labeling

Global Fluorine 18 Market, Segmentation by Bonding:

C-18F

Si-18F

B-18F

Global Fluorine 18 Market, Segmentation by Specific Activity:

High Specific Activity

Low Specific Activity

Global Fluorine 18 Market, Segmentation by Application:

Medical Imaging

Scientific Research

Companies Profiled:

ANSTO

Rosatom

Eckert & Ziegler

CNNC

Curium Pharma

GE HealthCare

Jubilant Radiopharma

Cardinal Health

IBA

Sumitomo Heavy Industries

Sinotau

Nueclear Healthcare

DC Pharma

Key Questions Answered:

1. How big is the global Fluorine 18 market?
2. What is the demand of the global Fluorine 18 market?
3. What is the year over year growth of the global Fluorine 18 market?
4. What is the production and production value of the global Fluorine 18 market?
5. Who are the key producers in the global Fluorine 18 market?
6. What are the growth factors driving the market demand?

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