

Supercritical Fluid Chromatography - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts 2019 - 2029

Market Report | 2024-02-17 | 110 pages | Mordor Intelligence

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Report description:

The Supercritical Fluid Chromatography Market size is estimated at USD 1.7 billion in 2024, and is expected to reach USD 2.14 billion by 2029, growing at a CAGR of 4.77% during the forecast period (2024-2029).

Certain factors that are driving the market growth include increasing demand for supercritical fluid chromatography in various industries and rise in research and development activities and government investments.

Key Highlights

- Chromatography is the science of separation of mixtures into organic and inorganic compounds. This is done by passing the mixture in a solution or suspension through a medium in which the components move at different rates.
- Recently, the application of chromatography has increased in many fields, especially in the pharmaceutical and food and beverage industries. The growing use of chromatography in the pharmaceutical industry is for the separation of chiral compounds. These compounds have molecules that differ slightly in the way their atoms are oriented in space.
- As far as supercritical fluid chromatography (SFC) is concerned, the major advantages of preparative SFC include separation speed, the ability to achieve chiral separations, lower viscosity of the mobile phases, which allows high flow rates with acceptable pressure drops and results in higher productivity, reduction of solvent use of as much as 90% compared to liquid chromatography, and ease of processing collected sample fractions. Technological advancements in developing more accurate and efficient systems have also helped the market growth.

Supercritical Fluid Chromatography Market Trends

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Preparative SFC Holds a Significant Market Share

Over a long period of time, preparative liquid chromatography was the technique of choice for the separation of chiral compounds, either during the drug discovery process to get up to a hundred grams of a pure enantiomer or during the clinical trial phases needing kilograms of material. However, the advent of supercritical fluid chromatography (SFC) has changed things. Undeniably, the use of carbon dioxide as the mobile phase in SFC offers many advantages, including a high flow rate and short equilibration time. Despite some initial teething troubles, SFC is becoming the primary method for preparative chiral chromatography. A major advantage of preparative SFC is the lower solvent usage achieved by replacing a majority of the mobile phase with carbon dioxide. At the analytical scale, this advantage may be small, but on the preparative scale, the advantage is quite significant, leading to a growth in this segment of the market studied.

North America Dominates the Market

North America accounts for the largest share of the supercritical fluid chromatography market due to growing government investments and funding for research. Additionally, there are also several major pharmaceutical companies that are increasingly outsourcing their drug and development services.

The countries also have a developed and well-structured healthcare system. These systems also encourage research and development. These policies encourage global players to enter the United States and Canada. Due to their developed healthcare systems, these economies spend a high percentage of their gross domestic product on research and development. As a result, these countries enjoy the presence of many global market players and research laboratories, which are primarily the users of chromatography instrumentation. As demand is met by the presence of global players in the region, the market is further expected to grow.

Supercritical Fluid Chromatography Industry Overview

The global supercritical fluid chromatography market is competitive and consists of a number of major players. Companies, like Fluitron Inc., JASCO, Labnics Equipment, Pressure Products Industries Inc., SFT Inc., Shimadzu Scientific Instruments, Thar Process Inc., and Waters Corporation, among others, hold the substantial share in the market.

Additional Benefits:

- The market estimate (ME) sheet in Excel format
- 3 months of analyst support

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