

# 2018-2023 Global Flow Chemistry Consumption Market Report

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## Abstracts

The report requires updating with new data and is sent in 48 hours after order is placed.

In this report, LP Information covers the present scenario (with the base year being 2017) and the growth prospects of global Flow Chemistry market for 2018-2023. In Flow Chemistry, two or more reagents are continuously pumped into a flow-reactor, where they mix and subsequently react under thermal control. Flow Chemistry has some major advantages. Mixing can be achieved within seconds and reaction temperature can be raised above the solvent's boiling point, resulting in faster reactions. Flow Chemistry enables excellent reaction selectivity. The rapid diffusion mixing avoids the issues found in batch reactors. The high surface area to volume ratio (1000x greater than a batch reactor) enables almost instantaneous heating or cooling and therefore ultimate temperature control, resulting in cleaner products.

The Flow Chemistry market is driven by rising demand in sustainable equipments, energy savings devices as well by safe and flexible processes. The continuous demand for flow devices caters to wide range of applications in the chemicals and pharmaceuticals industries. The major devices discussed in the report are Continuous Stirred Tank Reactors (CSTR), Plug Flow Reactors (PFR), Micro reactor systems (MRT), Microwave systems and others. Out of all devices, MRT systems market is estimated to grow by 7.95% till 2022.

The global flow chemistry market size is primarily driven by various advantages offered by process over batch reactors. It offers minimized maintenance & capital costs, low operating costs & energy usage, low installations cost, high scalability along with continuous processing, efficient & swift mixing of reactants, high mass & heat transfer and improved reaction control. All these above-mentioned process traits result in superior purified products and reaction yields along with diminished energy usage. This will subsequently boost flow chemistry market growth.

Safety concerns and fume emissions are the major factors considered in the chemical manufacturing companies, as these fumes are highly toxic and hazardous for workers and the environment. For instance, majority of the chemical manufacturing processes releases carbon dioxide, which is a notable contributor for pollution. Increasing flow chemistry technologies and equipment applications in laboratories for chemical organic synthesis will positively influence the global flow chemistry market size over the projected timeframe.

Rising focus towards sustainable manufacturing process in the chemical and pharmaceutical industry will fuel business growth. The process involves minimum heat exchange as compared with conventional batch processes, which ultimately offers effective and precise results and therefore improves the productivity. This makes the process widely accepted across end-user industries including pharmaceutical. Furthermore, batch reactors are not suitable for wide variety of chemical reactions owing to massive heat evolved during the process. Flow chemistry offers safer chemical reactions, considering both environmental and human/worker safety concerns. Furthermore, it also offers a harmless method for heating huge volumes of combustible chemicals and materials. This is forecast to positively stimulate the global flow chemistry market size by 2022.

The flow chemistry market share offers various competitive advantage over conventional batch processes. However, concerns regarding technology scale up for commercialization is the biggest challenge faced by the industry including pharmaceutical and chemical, as the initial technology was developed precisely for the laboratory purposes. Scaling up for commercialization will extensively require new investments for labs and adaptable equipment. This trend is likely to hamper the global flow chemistry market size by 2022. For instance, microreactor systems are not capable to contend with huge manufacturing units owing to its multipart structure. However, emerging industry applications across bio-diesel manufacturing process owing to its high effectiveness, minimum raw material consumption and low carbon emissions will positively impact the business growth by 2022.

Microreactor system flow chemistry is anticipated to observe highest gains more than 15% CAGR over the estimated timeframe. These systems have superior mass and heat transfer characteristics, which allows it to effectively control the heat evolved during the chemical reaction. These are also extensively used at small scale such as academic and industrial research. However, the industry is witnessing technological advancements, which makes these systems desirable across large scale applications as they require less energy. This will boost business growth over the projected timeframe.

The global flow chemistry market size for pharmaceutical is the fastest growing segment by 2022, as it helps to offers high yield along with low operational cost and will positively

impact the industry growth over the estimated period. It also offers high safety measures as compared to batch reactors. In additional pharmaceutical industry share contributors including Chemtrix BV are widely accepting flow chemistry for medicines and drug manufacturing. This trend will boost the overall industry growth by 2022. North America, led by the U.S. flow chemistry market size is forecast to witness gains more than 13% CAGR over the projected timeframe. Robust pharmaceutical industry in the region is the major factor contributing the overall regional industry growth. Furthermore, substantial petrochemical and natural gas feedstock in the U.S. will boost regional growth.

Asia Pacific, led by China and India, dominated the global flow chemistry market size in 2015. Prevalence of strong chemical manufacturers in China and India will boost industry growth. Furthermore, drifting manufacturer focus in setting up manufacturing facilities in Asia Pacific on account of low initial investment and favoring government regulations will drive regional industry by 2024.

Over the next five years, LPI(LP Information) projects that Flow Chemistry will register a 12.6% CAGR in terms of revenue, reach US\$ 150 million by 2023, from US\$ 75 million in 2017.

This report presents a comprehensive overview, market shares, and growth opportunities of Flow Chemistry market by product type, application, key manufacturers and key regions.

To calculate the market size, LP Information considers value and volume generated from the sales of the following segments:

Segmentation by product type:

Continuous Stirred Tank Reactors (CSTR)

Plug Flow Reactors (PFR)

Micro reactor systems (MRT)

Others

Segmentation by application:

Chemical industry

Pharmaceutical

Academic & Research

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Spain

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The report also presents the market competition landscape and a corresponding detailed analysis of the major vendor/manufacturers in the market. The key manufacturers covered in this report:

Chemitrix

Syrris

Vapourtec

ThalesNano

Uniqsis Ltd

YMC Engineering

AM Technology

HEL Group

FutureChemistry

In addition, this report discusses the key drivers influencing market growth, opportunities, the challenges and the risks faced by key manufacturers and the market as a whole. It also analyzes key emerging trends and their impact on present and future development.

## **RESEARCH OBJECTIVES**

To study and analyze the global Flow Chemistry consumption (value & volume) by key regions/countries, product type and application, history data from 2013 to 2017, and forecast to 2023.

To understand the structure of Flow Chemistry market by identifying its various subsegments.

Focuses on the key global Flow Chemistry manufacturers, to define, describe and analyze the sales volume, value, market share, market competition landscape, SWOT analysis and development plans in next few years.

To analyze the Flow Chemistry with respect to individual growth trends, future prospects, and their contribution to the total market.

To share detailed information about the key factors influencing the growth of the market (growth potential, opportunities, drivers, industry-specific challenges and risks).

To project the consumption of Flow Chemistry submarkets, with respect to key regions (along with their respective key countries).

To analyze competitive developments such as expansions, agreements, new product launches, and acquisitions in the market.

To strategically profile the key players and comprehensively analyze their

growth strategies.

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