

# **Global (North America, Europe, Asia-Pacific, South America, Middle East and Africa) Flow Chemistry Market 2018, Forecast to 2023**

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## **Abstracts**

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.

### **Scope of the Report:**

This report focuses on the Flow Chemistry in global market, especially in North America, Europe and Asia-Pacific, South America, Middle East and Africa. This report categorizes the market based on manufacturers, regions, type and application. 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.

The worldwide market for Flow Chemistry is expected to grow at a CAGR of roughly 12.6% over the next five years, will reach 150 million US\$ in 2023, from 75 million US\$ in 2017, according to a new GIR (Global Info Research) study.

Market Segment by Manufacturers, this report covers

Chemitrix

Syrris

Vapourtec

ThalesNano

Uniqsis Ltd

YMC Engineering

AM Technology

HEL Group

FutureChemistry

Market Segment by Regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia and Italy)

Asia-Pacific (China, Japan, Korea, India and Southeast Asia)

South America (Brazil, Argentina, Colombia etc.)

Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria and South Africa)

Market Segment by Type, covers

Continuous Stirred Tank Reactors (CSTR)

Plug Flow Reactors (PFR)

Micro reactor systems (MRT)

Others

Market Segment by Applications, can be divided into

Chemical industry

Pharmaceutical

Academic & Research

Others

There are 15 Chapters to deeply display the global Flow Chemistry market.

Chapter 1, to describe Flow Chemistry Introduction, product scope, market overview, market opportunities, market risk, market driving force;

Chapter 2, to analyze the top manufacturers of Flow Chemistry, with sales, revenue, and price of Flow Chemistry, in 2016 and 2017;

Chapter 3, to display the competitive situation among the top manufacturers, with sales, revenue and market share in 2016 and 2017;

Chapter 4, to show the global market by regions, with sales, revenue and market share of Flow Chemistry, for each region, from 2013 to 2018;

Chapter 5, 6, 7, 8 and 9, to analyze the market by countries, by type, by application and by manufacturers, with sales, revenue and market share by key countries in these regions;

Chapter 10 and 11, to show the market by type and application, with sales market share and growth rate by type, application, from 2013 to 2018;

Chapter 12, Flow Chemistry market forecast, by regions, type and application, with sales and revenue, from 2018 to 2023;

Chapter 13, 14 and 15, to describe Flow Chemistry sales channel, distributors, traders, dealers, Research Findings and Conclusion, appendix and data source

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