# Global Gas Chromatography Systems Market – Product Types and End-Use Sectors

"The report reviews, analyzes and projects the global market for Gas Chromatography Systems for the period 2020-2029. The market for product segments and sub-segments of GC Systems studied in the report comprise Instruments – Autosamplers, Detectors and Fraction Collectors; and Consumables & Accessories – Autosampler Accessories, Columns & Accessories, Fittings & Tubing, Flow Management & Pressure Regulator Accessories and Other Consumables & Accessories. The end-use sectors market analyzed in this report includes Agriculture, Environmental Sciences, Food & Beverages, Petrochemical, Pharmaceutical and Other End-Use Sectors."

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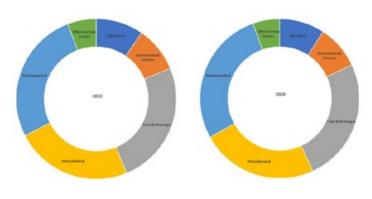
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## **Report Synopsis**

Gas Chromatography (GC) is the most commonly used type of Chromatography, comprising mobile and stationary phases. The mobile phase is the inert gas, and the stationary phase is a column within the machine. GC is most widely used to separate volatile mixtures in industries, such as pharmaceuticals, agriculture, environmental, industrial, food & beverage and cosmetics & cleaning.

Pharmaceutical is and will remain the largest, as also the fastest growing, end-use sector for GC Systems because of the technique's significance in identifying & analyzing samples for the presence of chemicals or trace elements, separating compounds based on their element composition & molecular weight, detecting purity of mixture & unknown compounds and in drug development. Overall global market for GC Systems is estimated to be US\$3.1 billion in 2023 and is further projected to reach US\$4.4 billion by 2029.

Global Gas Chromatography Systems Market by End-Use Sector 2022-2029



Source: Industry Experts, Inc. https://industry-experts.com

## **Research Findings & Coverage**

- Global market for Gas Chromatography Systems is analyzed in this report with respect to product segments/sub-segments, end-use sectors, major geographic regions and key countries
- Global market share analysis for GC Systems based on the segmentation mentioned above and current market size estimation, revenue projections for the analysis period through 2029

- The study discusses major growth trends, R&D, technology updates, statutory regulations and emerging applications of GC Systems that influence the market growth
- Key business trends focusing on product innovations/developments, capacity expansions, M&As, JVs and other recent industry developments by the major players
- The report includes 267 charts/data tables covering market numbers by segment and regions with graphical representation for each table
- Brief business profiles of major companies covered 16
- The industry guide includes the contact details for 171 companies

#### **Product Outline**

The market for product segments/sub-segments of Gas Chromatography Systems analyzed in this report includes:

- Instruments
  - o Autosamplers
  - Detectors
  - o Fraction Collectors
- Consumables & Accessories
  - o Autosampler Accessories
  - o Columns & Accessories
  - o Fittings & Tubing
  - o Flow Management & Pressure Regulator Accessories
  - o Others

Global market for end-use sectors of Gas Chromatography Systems explored in this study includes:

- Agriculture
- Environmental Sciences
- Food & Beverages
- Petrochemical
- Pharmaceutical
- Others

### **Analysis Period, Units and Growth Rates**

 The report reviews, analyzes and projects the global Gas Chromatography Systems market for the period 2020-2029 in terms of market value in US\$ and the compound annual growth rates (CAGRs) projected from 2023 through 2029

#### **Geographic Coverage**

- North America (The United States, Canada and Mexico)
- Europe (France, Germany, Italy, Russia, Spain, the United Kingdom and Rest of Europe)
- Asia-Pacific (China, India, Japan, South Korea and Rest of Asia-Pacific)
- South America (Argentina, Brazil and Rest of South America)
- Rest of World



## **SAMPLE COMPANY PROFILE**

## **AGILENT TECHNOLOGIES, INC. (UNITED STATES)**

5301 Stevens Creek Blvd, Santa Clara, CA 95051

Phone: 800-227-9770

Website: https://www.agilent.com/

#### **Business Profile**

Established in 1999 and headquartered in Santa Clara, California, Agilent Technologies, Inc., is a leading global provider of instruments, reagents, software, services and consumables that help laboratories maintain workflow procedures. The company's range of offerings includes liquid chromatography systems & components, gas chromatography systems & components, microarray solutions, clinical & diagnostic testing and automation systems, to name a few. The table below lists out the various gas chromatography systems & components offered by Agilent.

GC Products	Particulars
GC Systems	Comprise a portfolio of benchtop, online, and portable GC instruments used for analyzing and testing environmental, food, forensic, energy, chemical and pharmaceutical samples. Models include Intuvo 9000 GC System, 8890 GC System, 8860 GC System, 990 Micro GC System, 7890B GC System and 7820B GC System.
GC Analyzers	A wide range of analyzers used in environmental, gas impurities, forensics, pharmaceuticals, dissolved gas, energy, and chemical applications. Include Energy & Chemical GC Analyzers (Natural Gas Analyzers, Biodiesel Analyzers, Liquefied Petroleum Gas Analyzers, Micro GC Natural Gas Analyzer, Micro GC Refinery Gas Analyzer, Micro GC Biogas Analyzer, Refinery Gas Analyzers and Reformulated Fuel Analyzers), Gas Impurities Measurements GC Analyzers (Bulk Gas Impurities Analyzers, CO-CO <sub>2</sub> Analyzers, Sulfur & Nitrosamine Analyzers and Polymer Grade Monomer Analyzers), Dissolved Gas GC Analyzer [Transformer Oil Gas Analyzers (TOGA)], Environmental GC Analyzers (Greenhouse Gas Analyzer and Sulfur & Nitrosamine Analyzers), Forensic GC Analyzers (Intuvo Blood Alcohol Analyzer and Blood Alcohol Analyzer) and Pharmaceutical GC Analyzers (Intuvo Residual Solvent Analyzer and Residual Solvent Analyzer).
GC, GC/MS Technologies	Capillary Flow Technology, LTM Series II Rapid Heating/Cooling for 7890/8890 GC, Large Valve Oven for GC and GC Gasifier
GC Autosampler and Sample Introduction Technology	7693A Automatic Liquid Sampler, 7650A Automatic Liquid Sampler, 8697 Headspace Sampler, 7697A Headspace Sampler, PAL Auto Sampler Systems, Purge and Trap, Thermal Desorption, 7696A Sample Prep Workbench, GC Gasifier and Barcode Printing Bundle

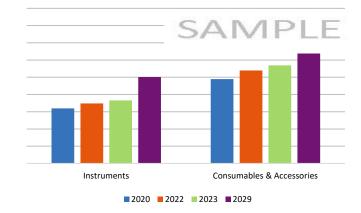
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# **SAMPLE TABLE/CHART**

Glance at 2023 Global Gas Chromatography Systems Market Share (%) by Geographic Region – North America, Europe, Asia-Pacific, South America and Rest of World



North American Gas Chromatography Systems Market Analysis (2020-2029) by Segment – Instruments and Consumables & Accessories in USD Million



## **KEY PLAYERS PROFILED**

- Agilent Technologies, Inc.
- Chromatotec
- Cytiva
- GL Sciences Inc.
- LECO Corporation
- Merck KGaA
- OI Analytical
- Perkinelmer, Inc.
- Phenomenex, Inc.
- Restek Corporation
- Scion Instruments NL BV
- Shimadzu Corp
- SRI Instruments
- Teledyne Analytical Instruments
- Thermo Fisher Scientific, Inc.
- Trajan Scientific and Medical

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