

Gas Chromatography (GC) Market Size and Forecast (2021 - 2031), Global and Regional Share, Trend, and Growth Opportunity Analysis Report Coverage: By Sample Introduction Technique (Liquid Injection, Static Headspace, Dynamic Headspace, Thermal Desorption, Pyrolysis, and Others), Injection Type (Split Injection, Splitless Injection, and Others), Detector Type (Flame Ionization Detector, Thermal Conductivity Detector, Electron Capture Detector, Thermionic Specific Detector, Flame Photometric Detector, Photo Ionization Detector, Mass Spectrometers, and Others), and End User (Oil & Gas, Chemical and Energy, Consumer Products, Pharmaceutical, and Others), and Geography

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Abstracts

The Gas Chromatography (GC) market was valued at US\$ 2.15 billion in 2023 and is anticipated to reach US\$ 3.54 billion by 2031; it is estimated to record a CAGR of 6.4% from 2023 to 2031.

The gas chromatography (GC) market trends include the surging popularity of gas chromatography in emerging regions.

The St. Kitts and Nevis Bureau of Standards (SKNBS) was established in March 1999.

The SKNBS is implementing the “Strengthening the National Quality Infrastructure: Training and Equipment for Conformity Assessment Project,” with funding from the European Union (EU). The project will focus on procuring and installing a gas chromatography/mass spectrometer (GC-MS) instrument at the SKNBS, along with managing consultancy services to train the chemistry laboratory staff to use the instrument. The Economic Partnership Agreement (EPA) and CSME Standby Facility Steering Committee approved the project for implementation in 2021. Thus, the EU initiatives fuel the Europe gas chromatography (GC) market growth.

Countries in the region are highly focused on building power plants to meet the growing electricity demand from the residential, commercial, and residential sectors in an efficient way. In addition, governments are focused on building new power plants with the rising demand for renewable electricity. For example, in February 2022, the French President stated that the country would build 14 new nuclear reactors by 2050 to make France carbon neutral by 2050. Thus, the building of new power plants will require gas chromatographic determination of diagnostic components (gases such as H_2 , CO_2 , CH_4 , CO , NO , NO_2 , O_2 , and N_2) to ensure efficient plants operations. This will further fuel the gas chromatography (GC) market growth in Europe.

In January 2024, the 26th Norwegian Symposium on Chromatography was held. It is a series of meetings organized every second year under the auspices of the Norwegian Chemical Society, Department of Analytical Chemistry. These meetings have strong traditions in the Norwegian separation science community, serving as a forum for excellent scientific talks, networking, and social events. Updates from the forefront of research in chromatography and the future of the field are discussed in these meetings. In addition, the current happenings in the chromatography insights in Norway are also discussed. Such meetings spread awareness regarding gas chromatography applications across various fields. As hundreds of people attend this event, awareness regarding this analytical technique creates opportunities for the gas chromatography (GC) market in Norway.

Agilent Technologies; Shimadzu Corporation; Thermo Fisher Scientific, Inc.; PerkinElmer, Inc.; Restek Corporation; VUV Analytics, Inc.; Wasson ECE; YOUNGIN Chromass; Da Vinci Laboratory Solutions B.V.; Separation Systems, Inc.; Merck KGaA; and MilliporeSigma are among the key players profiled in the gas chromatography (GC) market report. Several other major players were also studied and analyzed in the gas chromatography (GC) market report to get a holistic view of the market and its ecosystem. As per the company press releases, below is a recent key development:

- In 2024, Shimadzu Scientific Instruments introduced its next-generation gas chromatograph mass spectrometer – the GCMS-QP2050. Powered by advanced automated technology in a compact footprint, the GCMS-QP2050 features exceptional reliability, sensitivity, stability, and speed in an easy-to-use system. It can be partnered with Shimadzu's high-end Nexis GC-2030 or compact Brevis GC-2050 to meet customers' performance and space requirements.

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