

Gas Chromatography Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2022-2027

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Abstracts

The global gas chromatography market reached a value of US\$ 2.8 Billion in 2021. Looking forward, IMARC Group expects the market to reach US\$ 3.8 Billion by 2027, exhibiting a CAGR of 5.15% during 2022-2027. Keeping in mind the uncertainties of COVID-19, we are continuously tracking and evaluating the direct as well as the indirect influence of the pandemic on different end use industries. These insights are included in the report as a major market contributor.

Gas chromatography (GC) refers to an analytical technique used for the identification and separation of compounds from chemical mixtures. It involves the use of flame ionization detectors (FIDs) and thermal conductivity detectors (TCDs) for the detection of trace components and organic and inorganic compounds. The volatile gaseous compounds (VOC) are carried by an inert gas, such as helium, argon, hydrogen or nitrogen, across the sample injector, flow controller, chromatography column and detector for data acquisition and analysis. In comparison to the traditionally used micro-extraction and electrophoresis separation techniques, gas chromatography is a more cost-effective and reliable alternative.

Gas Chromatography Market Trends:

Significant growth in the pharmaceutical industry across the globe is one of the key factors creating a positive outlook for the market. GC is extensively used for drug discovery and separation of compounds from complex mixtures with enhanced precision and accuracy. Moreover, widespread adoption of GC across industries, such as oil and gas, food and beverage, biotechnology, medical and cosmetic, is providing a thrust to the market growth. It is commonly used in bio-analysis of blood and urine to detect the presence of barbiturates, alcohols, narcotics and residual solvents and drugs,

such as anesthetics, antihistamine, anticonvulsant, anti-epileptic drug, sedatives and hypnotics. It is also highly effective in the detection of toxins and venoms for clinical toxicology. Additionally, the development of advanced temperature-programmed chip-based GC systems and novel phases with nanoparticles, ionic liquids and co-polymers, is acting as another major growth-inducing factor. These innovative solutions aid in explosive inspection, environmental analysis, identifying unknown samples and fire investigation. Other factors, including extensive research and development (R&D) activities, along with significant improvements in the healthcare infrastructure, are anticipated to drive the market toward growth.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global gas chromatography market, along with forecasts at the global, regional and country level from 2022-2027. Our report has categorized the market based on product and end use industry.

Breakup by Product:

- Accessories and Consumables
 - Columns and Accessories
 - Fittings and Tubing
 - Auto-sampler Accessories
 - Flow Management and Pressure Regulator Accessories
 - Others
- Instruments
 - Systems
 - Auto-samplers
 - Fraction Collectors
 - Detectors
 - Flame Ionization Detectors (FID)
 - Thermal Conductivity Detectors (TCD)
 - Mass Spectrometry Detectors
 - Others
 - Reagents
 - Analytical Gas Chromatography Reagents
 - Bioprocess Gas Chromatography Reagents

Breakup by End Use Industry:

Pharmaceutical
Oil and Gas
Food and Beverage
Agriculture
Environmental Biotechnology
Others

Breakup by Region:

North America
United States
Canada
Asia-Pacific
China
Japan
India
South Korea
Australia
Indonesia
Others
Europe
Germany
France
United Kingdom
Italy
Spain
Russia
Others
Latin America
Brazil
Mexico
Others
Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being Agilent Technologies Inc., Bio-Rad Laboratories Inc., Chromatotec, Merck KgaA, PerkinElmer Inc., Phenomenex Inc. (Danaher Corporation), Restek Corporation, Shimadzu Corporation, Thermo Fisher Scientific Inc., W. R. Grace

and Company and Waters Corporation.

Key Questions Answered in This Report:

How has the global gas chromatography market performed so far and how will it perform in the coming years?

What has been the impact of COVID-19 on the global gas chromatography market?

What are the key regional markets?

What is the breakup of the market based on the product?

What is the breakup of the market based on the end use industry?

What are the various stages in the value chain of the industry?

What are the key driving factors and challenges in the industry?

What is the structure of the global gas chromatography market and who are the key players?

What is the degree of competition in the industry?

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