

Gas Chromatography Market Report by Product (Accessories and Consumables, Instruments, Reagents), End Use Industry (Pharmaceutical, Oil and Gas, Food and Beverage, Agriculture, Environmental Biotechnology, and Others), and Region 2023-2028

<https://marketpublishers.com/r/GF6CA7D0FD5EEN.html>

Date: November 2023

Pages: 146

Price: US\$ 2,499.00 (Single User License)

ID: GF6CA7D0FD5EEN

Abstracts

The global gas chromatography market size reached US\$ 3.0 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 3.9 Billion by 2028, exhibiting a growth rate (CAGR) of 4.5% during 2022-2028.

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 report, along with forecasts at the global, regional and country level from 2023-2028. 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

1. How big is the global gas chromatography market?
2. What is the expected growth rate of the global gas chromatography market during 2023-2028?
3. What are the key factors driving the global gas chromatography market?
4. What has been the impact of COVID-19 on the global gas chromatography market?
5. What is the breakup of the global gas chromatography market based on the product?
6. What is the breakup of the global gas chromatography market based on the end use industry?

7. What are the key regions in the global gas chromatography market?
8. Who are the key players/companies in the global gas chromatography market?

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