

Gas Chromatography Market by Instrument (Systems, Detectors), Accessories and Consumables (Columns, Column Accessories, Pressure Regulators, Gas Generators), End-User (Oil & Gas Industry, Environmental Agencies, Pharma & Biotech), and Region - Global Forecast to 2025

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Abstracts

“The GC market is projected to grow at a CAGR of 4.1% during the forecast period (2020–2025).”

The global GC market is projected to reach USD 3.5 billion by 2025 from USD 2.8 billion in 2020, at a CAGR of 4.1%. The growth in this market is driven by the growing adoption of GC-MS, rising crude & shale oil production, increasing importance of wastewater treatment, rising food safety concerns, and growing use of chromatography tests in the drug approval process. However, the high cost of GC equipment, geopolitical issues prevailing in some countries, and shortage of skilled professionals are expected to restrain the growth of this market during the forecast period.

“Adoption of GC systems is expected to increase during the forecast period.”

The systems segment of the GC instruments market is expected to account for the highest growth due to factors such increased capability to analyze complex compounds.

“The columns segment will grow at the highest rate during the forecast period.”

On the basis of accessories and consumables, the GC market is divided into columns, columns accessories, autosampler accessories, flow management accessories,

consumables & accessories, fittings & tubing, pressure regulators, gas generators, and other accessories. The columns segment is estimated to account for the largest share in the global gas chromatography market. The large share of this segment can primarily be attributed to factors such as improved gas chromatography columns for the petroleum industry.

“The oil and gas end-user industry is expected to rise during the forecast period.”

The oil and gas segment is expected to register a CAGR of 4.1% in the GC end-user market. The growth is mainly attributed to increasing crude and shale oil production and improved gas chromatography columns for the petroleum industry.

“The market in North America is projected to witness the highest growth rate during the forecast period (2020–2025).”

North America is expected to account for the largest share of the global GC market. Market growth in this region is driven primarily by the increase in R&D funding, cannabis research, market for shale oil and gas, and food and agricultural industry. On the other hand, the Asia Pacific is projected to have the highest growth rate during the forecast period. The high growth rate of the region can be attributed to factors such as extensive sales of generics in Japan and the growth in the pharma and biotech sectors in India and China.

A breakdown of the primary participants referred to for this report is provided below:

By Company Type (Supply-side): Tier 1: 43%, Tier 2: 29%, and Tier 3: 21%

By Category (Demand-side): Research Organisation:31%, Petroleum Industries:34%, Pharma and Biopharma: 15%, Environmental Agencies: 21%, Food and Beverage Agencies: 19%

By Designation: C-level: 43%, Director-level: 25%, and Managers: 23%

By Region: North America: 41%, Europe: 28%, Asia: 23%, and the RoW: 16%

The GC market is well established due to dominance of prominent market players such as Agilent Technologies, Inc. (US), Thermo Fisher Scientific, Inc. (US), Shimadzu Corporation (Japan), PerkinElmer, Inc. (US), Restek Corporation (US), Dani

Instruments S.P.A. (Italy), Chromatotec (France), Merck KGAA (Germany), Leco Corporation (US), Scion Instruments (US), Phenomenex (US), GL Sciences(Japan), OI Analytical (US), Valco Company Instruments Inc.(US), Centurion Scientific (India), SRI Instruments (US), Skyray Instruments(US), E ChromTech Co. Ltd. (Taiwan), Trajan Scientific (Australia), and Falcon Analytical (US).

Research Coverage:

The report analyzes the GC market and aims at estimating the market size and future growth potential of this market based on various segments and subsegments. The report also includes competitive analysis of key players in this market along with their company profiles, product and service offerings, recent developments, and key market strategies.

Reasons to Buy the Report

The report can help established firms, as well as new entrants/smaller firms, gauge the pulse of the market, which, in turn, would help them garner a greater share.

This report provides insights into the following pointers:

Market Penetration: Comprehensive information on product portfolios of the top players in the GC market.

Product Development/Innovation: Detailed insights on upcoming technologies, R&D activities, and product launches in the GC market.

Market Development: Comprehensive information about lucrative emerging markets. The report analyzes the markets for various types of GC solutions across regions.

Market Diversification: Exhaustive information about products, untapped regions, recent developments, and investments in the GC market.

Competitive Assessment: In-depth assessment of market shares, strategies, products, distribution networks, and manufacturing capabilities of the leading players in the GC market.

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