

Chromatography Reagents Market by Technology (LC(HPLC, UPLC, LPLC),GC, SFC, TLC), Type (Solvent(LC, GC), Derivatization Reagent (Acylation, Silylation), Ion-Pair Reagent, Buffer), Mechanism, User (Pharma, Academia, Hospital) - Global Forecast to 2029

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Abstracts

The Chromatography reagents market is projected to reach USD 11.5 billion by 2029 from USD 6.8 billion in 2024, at a CAGR of 11.0% during the forecast period. The chromatography reagents market is growing significantly due to increased R&D in pharmaceuticals and biotechnology, expanding use in food safety, and rising demand for clinical diagnostics. These factors underscore the growing importance of chromatography reagents across industries, driving market expansion.

“Solvent segment accounted for a substantial share of the Chromatography reagents market, by type in 2023.”

The solvents segment is expected to account for the largest share of 52.0% of the global Chromatography reagents market in 2023. It is projected to grow at the highest CAGR of 11.0% during the forecast period. The solvents segment is poised to assert its dominance in the chromatography reagents market primarily due to its indispensable role in chromatographic processes. Solvents play a critical role in facilitating the movement of samples through chromatography systems while ensuring accurate separations of complex mixtures. They serve as the medium through which analytes interact with the stationary phase, enabling the selective retention and elution of target compounds. Additionally, solvents help optimize the efficiency and resolution of chromatographic separations, thereby enhancing the accuracy and reliability of analytical results. Given their fundamental importance and widespread use across various chromatographic techniques such as liquid chromatography (LC) and gas

chromatography (GC), the solvents segment is expected to maintain its dominance in the chromatography reagents market.

“Adsorption Chromatography segment accounted for a substantial share of the Chromatography reagents market, by separation mechanism in 2023.”

Based on components, the Adsorption chromatography segment is expected to account for the largest share of 38.9% of the global Chromatography reagents market in 2023. The adsorption chromatography segment is positioned to dominate the chromatography reagents market due to its versatile and widely applicable separation mechanism. Adsorption chromatography, also known as liquid-solid chromatography, relies on the adsorption and desorption of analytes onto a solid stationary phase. This method offers high selectivity and sensitivity, making it ideal for a wide range of applications across various industries. Additionally, the competitive binding of analytes to the stationary phase and mobile phase enhances the separation efficiency and resolution of target compounds. Given these advantages and its widespread adoption in pharmaceutical, biotechnology, and environmental applications, the adsorption chromatography segment is poised for significant growth and dominance in the chromatography reagents market.

“Liquid Chromatography segment accounted for a considerable share in the Chromatography reagents market, by technology in 2023”

In 2023, the technology segment played a significant role in the Chromatography reagents market, contributing to a substantial share. The liquid chromatography segment is positioned to dominate the chromatography reagents market due to its versatility, efficiency, and widespread adoption across various industries. Liquid chromatography encompasses a range of techniques such as high-performance liquid chromatography (HPLC), ultra-high-performance liquid chromatography (UHPLC), and liquid chromatography-mass spectrometry (LC-MS), among others. These techniques offer high resolution, sensitivity, and reproducibility, making them indispensable tools for analytical and preparative applications. Additionally, liquid chromatography is highly adaptable to different sample matrices and analyte types, further enhancing its utility in pharmaceutical, biotechnology, food and beverage, environmental, and clinical research applications. Given its robust performance and broad applicability, the liquid chromatography segment is poised for continued dominance in the chromatography reagents market.

“North America to witness the substantial growth rate during the forecast period.”

During the forecast period, North America is projected to maintain its position as the leading market for chromatography reagents. The United States and Canada are the primary countries under consideration in this market study. North America benefits from a diverse and well-established research and development (R&D) infrastructure, which has led to the rapid adoption of chromatography techniques across various end-user industries. In 2023, North America accounted for the largest market share globally, at 37.0%. This growth can be attributed to several factors, including increasing drug development activities, government funding for life science R&D initiatives, widespread adoption of technologically advanced solutions, and a plethora of ongoing clinical research studies in the region. These factors collectively drive the growth of the North American market for chromatography reagents.

The break-down of primary participants is as mentioned below:

By Company Type - Tier 1: 45%, Tier 2: 30%, and Tier 3: 25%

By Designation - C-level: 42%, Director-level: 31%, and Others: 27%

By Region - North America: 32%, Europe: 32%, Asia Pacific: 26%, ROW-10%

Key Players in the Chromatography reagents Solutions Market

Prominent players in the Chromatography reagents market include Thermo Fisher Scientific, Inc. (US), Merck KGaA (Germany), Avantor, Inc. (US), Waters Corporation (US), Agilent Technologies, Inc.(US), Bio-Rad Laboratories, Inc. (US), Danaher Corporation (US), Chiron AS (Norway), Loba Chemie (India), GFS Chemicals, Inc. (US), Regis Technologies, Inc. (US), Tokyo Chemical Industry Co., Ltd (TCI) (Japan), Honeywell International Inc. (US), Shimadzu Corporation(Japan), Santa Cruz Biotechnology, Inc. (US), Restek Corporation (US), Spectrum Chemical Mfg. Corp. (US), Kanto Kagaku (Japan), Tedia Company, Inc. (US), ITW Reagents Division (Spain), Tosoh Corporation (Japan), Concord Technology Co., Ltd. (Tianjin), Thomas Baker (Chemicals) Pvt. Ltd.(India), Alpha Laboratories Ltd. (Hampshire), Spectrochem (India), Columbus Chemical Industry (WI).

Research Coverage:

The report analyzes the Chromatography Reagents Market and aims to estimate the

Chromatography Reagents Market by Technology (LC(HPLC, UPLC, LPLC),GC, SFC, TLC), Type (Solvent(LC, GC), Deri...

market size and future growth potential of various market segments, based on type, technology, separation mechanism, end user, and region. The report also provides a competitive analysis of the key players operating in this market, along with their company profiles, product offerings, recent developments, and key market strategies.

Reasons to Buy the Report

This report will enrich established firms as well as new entrants/smaller firms to gauge the pulse of the market, which, in turn, would help them garner a greater share of the market. Firms purchasing the report could use one or a combination of the below-mentioned strategies to strengthen their positions in the market.

This report provides insights on:

Analysis of key drivers (Growing pharmaceutical and biopharmaceutical R & D activities, Rising concerns for food safety, Growing utilization of chromatography in drug development and omics research, Increasing demand for therapeutic antibodies), restraints (Lack of skilled professionals), opportunities (Increasing use of chromatography in the purification of monoclonal antibodies, Growing use of chromatography in proteomics), and challenges (Premium cost of organic solvents)

Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product launches in the Chromatography reagents market.

Market Development: Comprehensive information on the lucrative emerging markets, component, demographics, end-user, and region.

Market Diversification: Exhaustive information about the product portfolios, growing geographies, recent developments, and investments in the Chromatography reagents market

Competitive Assessment: In-depth assessment of market shares, growth strategies, product offerings, and capabilities of the leading players in the Chromatography reagents market like Thermo Fisher Scientific, Inc. (US), Merck KGaA (Germany), Avantor, Inc. (US), Waters Corporation (US), Agilent Technologies, Inc.(US), Bio-Rad Laboratories, Inc. (US).

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