

Global Phenyl Reversed-Phase Chromatography Packing Market Growth 2026-2032

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Abstracts

The global Phenyl Reversed-Phase Chromatography Packing market size is predicted to grow from US\$ 101 million in 2025 to US\$ 153 million in 2032; it is expected to grow at a CAGR of 6.2% from 2026 to 2032.

Phenyl reversed-phase chromatography media are stationary phases based on high-purity silica, hybrid silica, polymer-coated silica, or limited polymer microsphere supports. Aromatic ligands such as phenyl, phenyl-hexyl, phenyl-butyl, and biphenyl groups are covalently bonded to the particle surface, forming a reversed-phase liquid chromatography material. These media are widely used in HPLC, UHPLC analysis, method development, and certain preparative purification applications. Compared with C18 phases, phenyl columns typically exhibit weaker hydrophobic retention but provide additional π - π interactions, dipole interactions, and shape selectivity, making them suitable for separating aromatic compounds, conjugated systems, isomers, polar drug impurities, and natural products. The estimated gross margin is approximately 58%.

Phenyl reversed-phase media are not a general replacement for C18 columns, but rather a selectivity-oriented complementary tool in chromatographic method development. Increasing complexity in drug impurity profiles, isomeric compounds, aromatic analytes, and natural product matrices has driven stable demand for phenyl, phenyl-hexyl, and biphenyl stationary phases across pharmaceutical development, food safety testing, environmental analysis, and research laboratories.

Market growth is primarily driven by two factors: (1) UHPLC and high-throughput analytical workflows requiring smaller particle sizes, core-shell architectures, and low column bleed materials; (2) increased regulatory and development requirements for robust, transferable, and validated methods in innovative drug pipelines and generic

drug equivalence studies. Customers increasingly evaluate batch reproducibility, pH stability range, column efficiency, peak shape, and orthogonal selectivity relative to C18, rather than focusing on per-column cost alone.

The competitive landscape remains dominated by global chromatography suppliers, with advantages in silica engineering, bonding chemistry, application databases, and regulatory validation experience. Domestic manufacturers have opportunities in standard analytical columns and preparative media; however, high-end UHPLC phenyl phases, small-particle high-stability materials, and bio-compatible wide-pore systems still require long-term performance data and extensive application validation to achieve broader market trust.

LP Information, Inc. (LPI) ' newest research report, the "Phenyl Reversed-Phase Chromatography Packing Industry Forecast" looks at past sales and reviews total world Phenyl Reversed-Phase Chromatography Packing sales in 2025, providing a comprehensive analysis by region and market sector of projected Phenyl Reversed-Phase Chromatography Packing sales for 2026 through 2032. With Phenyl Reversed-Phase Chromatography Packing sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Phenyl Reversed-Phase Chromatography Packing industry.

This Insight Report provides a comprehensive analysis of the global Phenyl Reversed-Phase Chromatography Packing landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Phenyl Reversed-Phase Chromatography Packing portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Phenyl Reversed-Phase Chromatography Packing market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Phenyl Reversed-Phase Chromatography Packing and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Phenyl Reversed-Phase Chromatography Packing.

This report presents a comprehensive overview, market shares, and growth

opportunities of Phenyl Reversed-Phase Chromatography Packing market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Phenyl

Phenyl-Hexyl

Phenyl-Butyl

Biphenyl

Diphenyl

Fluorophenyl/PFP

Phenyl-Ether

Segmentation by Matrix Type:

Silica-Based

Hybrid Silica-Based

Polymer-Coated Silica-Based

Core-Shell Silica-Based

Polymer-Based

Other

Segmentation by Particle Size:

Sub-2 µm

2 µm to 3 µm

3 µm to 5 µm

5 µm to 10 µm

Above 10 µm

Segmentation by Pore Size:

Small-Pore ≤100 Å

Standard-Pore 120 Å to 160 Å

Wide-Pore 200 Å to 300 Å

Extra-Wide-Pore Above 300 Å

Other

Segmentation by Application:

Pharmaceutical Small-Molecule Analysis

Peptide and Protein Analysis

Natural Product and Food Testing

Environmental and Industrial Testing

Preparative Purification

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Waters

Agilent Technologies

Thermo Fisher Scientific

Phenomenex

Merck

YMC

GL Sciences

Shimadzu

Sepax Technologies

Welch Materials

Restek

Avantor

Nouryon

Imtakt

Osaka Soda

Key Questions Addressed in this Report

What is the 10-year outlook for the global Phenyl Reversed-Phase Chromatography Packing market?

What factors are driving Phenyl Reversed-Phase Chromatography Packing market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Phenyl Reversed-Phase Chromatography Packing market opportunities vary by end market size?

How does Phenyl Reversed-Phase Chromatography Packing break out by Type, by Application?

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