

Global C18 Bonding Reagent Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/GE63F8C16925EN.html>

Date: July 2026

Pages: 99

Price: US\$ 3,480.00 (Single User License)

ID: GE63F8C16925EN

Abstracts

According to our (Global Info Research) latest study, the global C18 Bonding Reagent market size was valued at US\$ 65.85 million in 2025 and is forecast to a readjusted size of US\$ 98 million by 2032 with a CAGR of 5.9% during review period.

C18 bonding reagents refer to organosilane compounds containing long C18 alkyl chains and hydrolysable silane functional groups. Typical products include octadecyltrichlorosilane, octadecyl dimethyl chlorosilane, octadecyl trimethoxysilane, and related oligomeric silane surface modifiers. They are primarily used for hydrophobization and C18 stationary phase preparation on silica, glass, metal oxides, and other inorganic substrates. The estimated gross margin is approximately 48%.

Demand for C18 bonding reagents is mainly driven by reversed-phase chromatography media, sample preparation materials, and high-consistency surface modification processes. In chromatographic applications, stringent requirements on bonding density, residual silanol activity, batch consistency, and ultra-low impurity levels create sustained demand for high-purity trichlorosilanes, mono-functional silanes, and high-purity alkoxysilanes, typically in small-batch and high-specification production formats. This product is not a bulk commodity silane coupling agent, but rather a specialized subset of long-chain alkyl silanes. Its market is supported by pharmaceutical quality control, life science analytics, food and environmental testing, semiconductor and micro/nano surface modification applications. While C18 columns remain one of the dominant stationary phases in reversed-phase HPLC, the consumable column market does not directly translate into the reagent market; instead, reagent demand is driven by purity grade, stability control, and validated supply consistency. Future growth is expected to come from expanded domestic production of chromatography media, localization of

laboratory consumables, and small-batch high-value surface engineering applications in electronics and materials. In terms of competition, international suppliers dominate high-purity and small-packaging channels, while Chinese organosilicon manufacturers have advantages in cost and custom synthesis. Suppliers capable of combining color-grade purification control with regulatory documentation support are more likely to achieve premium pricing.

This report is a detailed and comprehensive analysis for global C18 Bonding Reagent market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global C18 Bonding Reagent market size and forecasts, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global C18 Bonding Reagent market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global C18 Bonding Reagent market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global C18 Bonding Reagent market shares of main players, shipments in revenue (\$ Million), sales quantity (kg), and ASP (US\$/kg), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for C18 Bonding Reagent

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global C18 Bonding Reagent market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Gelest, Tokyo Chemical Industry, Merck, Thermo Fisher Scientific, Fluorochem, Hubei Co-Formula Material, Hubei Jiangnan New Materials, Nanjing SiSiB Silicones, Shanghai Aladdin Biochemical, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

C18 Bonding Reagent market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Chlorosilane C18 Reagents

Alkoxysilane C18 Reagents

Aminosilane C18 Reagents

Oligomeric C18 Silane Treatments

Market segment by Silane Functionality

Monofunctional C18 Silanes

Difunctional C18 Silanes

Trifunctional C18 Silanes

Multifunctional C18 Silanes

Market segment by Purity Grade

Standard Purity Grade

High Purity Grade

Ultra-High Purity Grade

Market segment by Target Substrate

Silica Gel Surface Bonding

Glass and Silicon Dioxide Surfaces

Metal Oxide Surfaces

Inorganic Filler Treatment

Other Substrates

Market segment by Application

Reversed-Phase Chromatography Media

Sample Preparation Media

Surface Hydrophobization

Self-Assembled Monolayers

Composite and Filler Treatment

Other

Major players covered

Gelest

Tokyo Chemical Industry

Merck

Thermo Fisher Scientific

Fluorochem

Hubei Co-Formula Material

Hubei Jiangnan New Materials

Nanjing SiSiB Silicones

Shanghai Aladdin Biochemical

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe C18 Bonding Reagent product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of C18 Bonding Reagent, with price, sales quantity, revenue, and global market share of C18 Bonding Reagent from 2021 to 2026.

Chapter 3, the C18 Bonding Reagent competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the C18 Bonding Reagent breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and C18 Bonding Reagent market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of C18 Bonding Reagent.

Chapter 14 and 15, to describe C18 Bonding Reagent sales channel, distributors, customers, research findings and conclusion.

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