

Global 2,4,6-Triformylphloroglucinol Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global 2,4,6-Triformylphloroglucinol market size was valued at US\$ 3.29 million in 2025 and is forecast to a readjusted size of US\$ 7.63 million by 2032 with a CAGR of 12.5% during review period.

2,4,6-Triformylphloroglucinol is a highly functionalized aromatic organic building block based on a phloroglucinol core bearing three formyl groups and three phenolic hydroxyl groups. With the molecular formula $C_9H_6O_6$ and molecular weight of 210.14, it is typically supplied as a white to light-yellow solid for research and custom synthesis applications. In materials chemistry, it is primarily used as an aldehyde linker for covalent organic frameworks, reacting with aromatic amines, triazine amines, hydrazides, hydrazines, and other multifunctional nucleophiles to construct β -ketoenamine-linked, imine-linked, hydrazone-linked, or related porous organic frameworks. This study focuses on research-grade and small-to-medium scale custom-synthesis supply used in COF synthesis, porous polymer formation, functional membranes, adsorption/separation, catalysis, optoelectronic, sensing, and energy-storage research.

Based on our research, 2,4,6-Triformylphloroglucinol should be viewed as a high-value, research-driven COF monomer rather than a commodity chemical. Its commercial nature sits at the intersection of small-molecule building blocks, advanced materials linkers, and custom synthesis reagents. Demand is primarily generated by universities, research institutes, advanced materials laboratories, and early-stage developers of porous organic frameworks. The product is consumed in small packages for exploratory synthesis and in limited bulk quantities for pilot-scale COF development. Therefore, the

market is structurally small in volume but relatively high in unit value.

From the supply-side perspective, the visible supplier pool is much larger than the pool of confirmed manufacturers. Several companies have clear official product pages, SDS files, specifications, or catalog references, while many others appear only in directory listings or marketplace channels. TCI, BLD Pharmatech, Leyan/Haohong, Aladdin, ChemScene, Jilin Yanshen, Acme, Accela, Chemenu, Carl Roth, Fluorochem, Key Organics, Alfa Chemistry, BOC Sciences, and Ambeed form the practical core supplier group.

From a technology-route perspective, the strategic value of this molecule lies in its role as a phloroglucinol-based trialdehyde linker for stable β -ketoenamine-linked COFs and related porous organic polymers. Growth is expected to be supported by ongoing research in functional COF films, adsorption/separation materials, photocatalysis, electrochemical energy storage, and sensing. The main risk is not immediate product obsolescence, but application uncertainty: if COF technologies remain mostly academic, demand will remain limited to grams and kilograms; if membrane, catalysis, or energy-storage use cases move toward pilot production, the compound could see stronger bulk demand.

This report is a detailed and comprehensive analysis for global 2,4,6-Triformylphloroglucinol market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Molecular Role 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 2,4,6-Triformylphloroglucinol market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global 2,4,6-Triformylphloroglucinol market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global 2,4,6-Triformylphloroglucinol market size and forecasts, by Molecular Role and

by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global 2,4,6-Triformylphloroglucinol market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 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 2,4,6-Triformylphloroglucinol

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 2,4,6-Triformylphloroglucinol 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 Tokyo Chemical Industry Co., Ltd., BLD Pharmatech Ltd., Shanghai Haohong Biomedical Technology Co., Ltd., Shanghai Aladdin Biochemical Technology Co., Ltd., Jilin Chinese Academy of Sciences-Yanshen Technology Co., Ltd., Chemenu Inc., Shanghai Acmec Biochemical Technology Co., Ltd., etc.

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

Market Segmentation

2,4,6-Triformylphloroglucinol market is split by Molecular Role and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Molecular Role, 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 Molecular Role

Primary COF Aldehyde Linker

Multifunctional Aromatic Aldehyde Monomer

Phloroglucinol-Derived Trialdehyde Intermediate

Market segment by COF Linkage Chemistry

?-Ketoenamine-Linked COFs

Imine-Linked COFs

Hydrazone / Azine-Linked COFs

Market segment by Reaction Partner

Aromatic Diamine Partners

Triazine-Based Amine Partners

Hydrazine / Hydrazide Partners

Multifunctional Amine Partners

Market segment by Application

COF Synthesis

Porous Organic Polymers

Functional Films / Membranes

Catalysis / Photocatalysis

Energy Storage / Sensing

Major players covered

Tokyo Chemical Industry Co., Ltd.

BLD Pharmatech Ltd.

Shanghai Haohong Biomedical Technology Co., Ltd.

Shanghai Aladdin Biochemical Technology Co., Ltd.

Jilin Chinese Academy of Sciences-Yanshen Technology Co., Ltd.

Chemenu Inc.

Shanghai Acmec Biochemical Technology Co., Ltd.

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 2,4,6-Triformylphloroglucinol product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 2,4,6-Triformylphloroglucinol, with price, sales quantity, revenue, and global market share of 2,4,6-Triformylphloroglucinol from 2021 to 2026.

Chapter 3, the 2,4,6-Triformylphloroglucinol competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the 2,4,6-Triformylphloroglucinol 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 Molecular Role and by Application, with sales market share and growth rate by Molecular Role, 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 2,4,6-Triformylphloroglucinol market forecast, by regions, by Molecular Role, 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 2,4,6-Triformylphloroglucinol.

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