

Global 2,4,6-Triformylphloroglucinol Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global 2,4,6-Triformylphloroglucinol market size is expected to reach \$ 7.63 million by 2032, rising at a market growth of 12.5% CAGR during the forecast period (2026-2032).

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, Acmechem, 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 studies the global 2,4,6-Triformylphloroglucinol production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for 2,4,6-Triformylphloroglucinol and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of 2,4,6-Triformylphloroglucinol that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global 2,4,6-Triformylphloroglucinol total production and demand, 2021-2032, (Tons)
Global 2,4,6-Triformylphloroglucinol total production value, 2021-2032, (USD Million)
Global 2,4,6-Triformylphloroglucinol production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)
Global 2,4,6-Triformylphloroglucinol consumption by region & country, CAGR, 2021-2032 & (Tons)
U.S. VS China: 2,4,6-Triformylphloroglucinol domestic production, consumption, key domestic manufacturers and share
Global 2,4,6-Triformylphloroglucinol production by manufacturer, production, price,

value and market share 2021-2026, (USD Million) & (Tons)

Global 2,4,6-Triformylphloroglucinol production by Molecular Role, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global 2,4,6-Triformylphloroglucinol production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global 2,4,6-Triformylphloroglucinol market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World 2,4,6-Triformylphloroglucinol market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by manufacturer, by Molecular Role, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global 2,4,6-Triformylphloroglucinol Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global 2,4,6-Triformylphloroglucinol Market, Segmentation by Molecular Role:

Primary COF Aldehyde Linker

Multifunctional Aromatic Aldehyde Monomer

Phloroglucinol-Derived Trialdehyde Intermediate

Global 2,4,6-Triformylphloroglucinol Market, Segmentation by COF Linkage Chemistry:

?-Ketoenamine-Linked COFs

Imine-Linked COFs

Hydrazone / Azine-Linked COFs

Global 2,4,6-Triformylphloroglucinol Market, Segmentation by Reaction Partner:

Aromatic Diamine Partners

Triazine-Based Amine Partners

Hydrazine / Hydrazide Partners

Multifunctional Amine Partners

Global 2,4,6-Triformylphloroglucinol Market, Segmentation by Application:

COF Synthesis

Porous Organic Polymers

Functional Films / Membranes

Catalysis / Photocatalysis

Energy Storage / Sensing

Companies Profiled:

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.

Key Questions Answered:

1. How big is the global 2,4,6-Triformylphloroglucinol market?
2. What is the demand of the global 2,4,6-Triformylphloroglucinol market?
3. What is the year over year growth of the global 2,4,6-Triformylphloroglucinol market?
4. What is the production and production value of the global 2,4,6-Triformylphloroglucinol market?
5. Who are the key producers in the global 2,4,6-Triformylphloroglucinol market?
6. What are the growth factors driving the market demand?

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