

# Global 2,3,4-Trifluoronitrobenzene (2,3,4-TFNB) Market 2023

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## Abstracts

2,3,4-Trifluoronitrobenzene (2,3,4-TFNB) is a chemical compound with the molecular formula  $C_6H_3F_3NO_2$ . It is primarily used as an intermediate compound in the synthesis of the next generation of fluoroquinolone drugs and quinolonic acid antibacterial agents. These drugs, such as ofloxacin, lomefloxacin, and norfloxacin, are important in the field of medicine for their antimicrobial properties. 2,3,4-TFNB plays a crucial role in the manufacturing process by serving as a key building block for these pharmaceutical substances.

In addition to its role in the pharmaceutical industry, 2,3,4-TFNB finds application as an intermediate in the production of various liquid crystal chemicals. Liquid crystals are materials that exhibit properties of both solids and liquids and are widely used in displays, such as LCD screens. 2,3,4-TFNB is used in the synthesis of compounds like 2,3,4-trifluoroaniline and 3,4,5-trifluoroaniline, which are essential components in the production of different types of liquid crystal materials.

The global market for 2,3,4-trifluoronitrobenzene is expected to experience steady growth. According to the latest market study results, the market is projected to grow by 5.8% annually through 2029 in terms of revenue.

The report covers market size and growth, segmentation, regional breakdowns, competitive landscape, trends and strategies for global 2,3,4-trifluoronitrobenzene market. It presents a quantitative analysis of the market to enable stakeholders to capitalize on the prevailing market opportunities. The report also identifies top segments for opportunities and strategies based on market trends and leading competitors' approaches.

## Market Segmentation

Application: liquid crystal materials, pharmaceuticals, others

Region: Asia-Pacific, Europe, North America, Rest of the World (RoW)

To provide a comprehensive analysis of the market, the industry report segments the global 2,3,4-trifluoronitrobenzene market by application and region. In terms of application, the market is categorized into liquid crystal materials, pharmaceuticals, and others. Among these segments, the pharmaceuticals segment held the largest revenue share in 2022. The use of 2,3,4-TFNB in the pharmaceutical industry is crucial for the synthesis of fluoroquinolone drugs, which are a class of antibiotics known for their broad-spectrum activity against various bacterial infections. Fluoroquinolones are widely used in the treatment of respiratory, urinary tract, gastrointestinal, and skin infections. The synthesis of fluoroquinolone drugs involves the incorporation of a fluorine atom into the quinolone ring structure, and 2,3,4-TFNB serves as a key intermediate in this process.

Additionally, 2,3,4-TFNB plays a significant role in the production of quinolonic acid antibacterial agents. Quinolonic acid derivatives have shown antibacterial activity against a range of pathogens, including drug-resistant strains. These compounds have the potential to be used in the development of new antibiotics to combat bacterial infections. 2,3,4-TFNB is utilized as a starting material in the synthesis of quinolonic acid derivatives, highlighting its importance in the pharmaceutical industry.

The market is also segmented by region, including Asia-Pacific, Europe, North America, and the Rest of the World (RoW). Among these regions, Asia-Pacific was the highest revenue generator in 2022, reflecting the growing demand for pharmaceuticals and liquid crystal materials in countries like China, India and Japan. In the pharmaceutical industry, the Asia-Pacific region has witnessed significant growth due to factors like increasing population, rising healthcare expenditure, and the presence of a large number of contract research organizations (CROs) and contract manufacturing organizations (CMOs). These countries have become attractive destinations for pharmaceutical companies to outsource their research, development, and manufacturing activities.

## Major Companies and Competitive Landscape

The global 2,3,4-trifluoronitrobenzene market is primarily dominated by a few key players, including Aarti Industries Limited, Zhejiang Jitai New Materials Co., Ltd. (Zhejiang Linjiang Chemical Co., Ltd.), Zhejiang Xieshi New Materials Co., Ltd., and Zhejiang Yongtai Technology Co., Ltd. With 12 manufacturing sites located in Zhejiang, Fujian, Guangdong, Shandong, Inner Mongolia, Jiangsu, and four research and

development centers in Taizhou, Hangzhou, and Shanghai, Zhejiang Yongtai Technology is actively engaged in various industries, including pharmaceuticals, agrichemicals, panel displays, and electric batteries. The company employs approximately 3,685 individuals and reported a total revenue of \$745 million in 2021.

#### Scope of the Report

To analyze and forecast the market size of the global 2,3,4-trifluoronitrobenzene market.

To classify and forecast the global 2,3,4-trifluoronitrobenzene market based on application, region.

To identify drivers and challenges for the global 2,3,4-trifluoronitrobenzene market.

To examine competitive developments such as mergers & acquisitions, agreements, collaborations and partnerships, etc., in the global 2,3,4-trifluoronitrobenzene market.

To identify and analyze the profile of leading players operating in the global 2,3,4-trifluoronitrobenzene market.

#### Why Choose This Report

Gain a reliable outlook of the global 2,3,4-trifluoronitrobenzene market forecasts from 2023 to 2029 across scenarios.

Identify growth segments for investment.

Stay ahead of competitors through company profiles and market data.

The market estimate for ease of analysis across scenarios in Excel format.

Strategy consulting and research support for three months.

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