

# **Global Phosphoramidite Market Size study, by Type (DNA Phosphoramidites, RNA Phosphoramidites, Labeled Phosphoramidites, Modifier Phosphoramidites, Others) by Application (Drug Discovery & Development, Diagnostics Development, Others) by End-use (Pharmaceutical & Biotechnology Companies, Academic & Research Institutes, Others) and Regional Forecasts 2022-2032**

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## **Abstracts**

Global Phosphoramidite Market is valued approximately USD 1.08 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 7.37% over the forecast period 2024-2032. Phosphoramidites are chemical compounds commonly used in the field of molecular biology and synthetic chemistry, particularly for the synthesis of oligonucleotides (short DNA or RNA fragments). They are derivatives of phosphorous acid, where one of the hydroxyl groups is replaced by an amino group and the other two hydroxyl groups are usually esterified with alkyl groups. Also, the growing demand for custom synthesis services in the phosphoramidite market is bolstering growth by catering to specialized needs in oligonucleotide synthesis. This trend reflects increasing requirements for tailored solutions in pharmaceuticals, biotechnology, and genetic research, driving the consumption of phosphoramidites as essential raw materials for precise and efficient nucleotide production.

The Phosphoramidites are crucial intermediates in the synthesis of oligonucleotides, which are widely used in molecular biology, genetic engineering, and diagnostics. As these fields expand, so does the demand for phosphoramidites. Also, the pharmaceutical industry relies heavily on phosphoramidites for the synthesis of

antisense oligonucleotides and nucleoside analogs, which are integral in drug discovery and development. Continued research and development in this sector contribute to market growth. Additionally, with growing investments in biotechnology and life sciences research, there is a corresponding increase in the demand for phosphoramidites. These compounds are essential in the development of biotechnological products and processes. However, the product high costs, and stringent regulations regarding chemical usage and environmental impact are expected to hinder the market growth during the forecast period 2024-2032.

The key regions considered for the global Phosphoramidite market study includes Asia Pacific, North America, Europe, Latin America, and Rest of the World. In 2023, North America was the dominating region in the market in terms of revenue.

Phosphoramidites are crucial in the synthesis of oligonucleotides, which are used in various pharmaceutical applications such as gene therapy, antisense technology, and diagnostics. The growing pharmaceutical industry in North America drives the demand for these compounds. Also, continuous research and development in life sciences and biotechnology sectors in North America led to innovation in drug discovery and development, spurring the demand for phosphoramidites. Whereas, the Asia Pacific is expected to grow as the fastest growing region during the forecast period 2023-2032.

Major market player included in this report are:

BOC Sciences

Thermo Fisher Scientific Inc.

Merck KGaA Group

Glen Research Inc

LGC Biosearch Technologies

Biosynth

Bioneer Corporation

QIAGEN N.V.

PolyOrg, Inc

Lumiprobe Corporation

The detailed segments and sub-segment of the market are explained below:

By Type

DNA Phosphoramidites

RNA Phosphoramidites

Labeled Phosphoramidites

Modifier Phosphoramidites

Others

By Application

Drug Discovery & Development

Diagnostics Development

Others

By End-use

Pharmaceutical & Biotechnology Companies

Academic & Research Institutes

Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa  
Saudi Arabia  
South Africa  
RoMEA

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

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