

# Pyridine Market: Latest Research Report for Business Success 2024-2031 | Jubilant Life Sciences Ltd., Lonza Group Ltd.

*pyridine market was valued at US\$ 1, 2605.5 Mn in 2022, exhibiting a CAGR of 9.7% over the forecast period (2023 to 2030) to reach US\$ 2,642.8 Mn by 2030.*

BURLINGAME, CALIFORNIA, UNITED STATES, May 22, 2024 /EINPresswire.com/ -- Market Overview:

Pyridine is an organic heterocyclic base with a typical aromatic odor. It is a colorless liquid and has a boiling point of 115.2°C. Pyridine is primarily used as a precursor in the manufacturing of agrochemicals, pharmaceuticals, and other chemical industries.

## Market Dynamics:

Rising demand for agrochemicals from the growing agriculture industry is expected to drive the growth of the pyridine market during the forecast period. Agrochemicals such as pesticides, herbicides require pyridine as an essential precursor or solvent. According to FAO, agricultural output is required to increase by around 60% by 2050 to feed the growing global population which is projected to reach around 9.7 billion by 2050. This rising need for agriculture production is fueling the demand for agrochemicals. Additionally, growing demand for pharmaceuticals and chemical industries where pyridine and its derivatives are used widely as key intermediates or solvents is also expected to support the market growth over the forecast period.

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Expanding Applications in Agricultural Chemicals Represents a Key Driver for Pyridine Market Growth



Pyridine Market

Pyridine is extensively used as an intermediate in agricultural chemicals production, including herbicides, insecticides and fungicides. The growing global demand for food produced from rising population has been driving increased agricultural output, spurring the demand for agrochemicals. Pyridine acts as an important intermediate in manufacturing a wide variety of agrochemicals such as nicotine-based insecticides. The economic growth in emerging countries is allowing more consumers to shift towards improved quality food and lifestyle products, presenting lucrative opportunities for agrochemical manufacturers. Moreover, sustained efforts towards improving crop yields to meet the needs of a ballooning global population through increasing reliance on agrochemicals are propelling the pyridine market.

### Rising Consumption in Pharmaceuticals Industry Augments the Pyridine Market

Pyridine is an important building block in pharmaceutical industry used in manufacturing important drugs. It is widely utilized in making important vitamins like vitamin B3 (niacin) and pharmaceutical intermediates. With aging global population and proliferation of lifestyle-induced diseases, the demand for medicines is burgeoning tremendously. This is presenting massive growth opportunities for the pharmaceutical industry. Furthermore, pyridine derivatives have demonstrated effective properties in treating various diseases and emerging as potential drug candidates. The rising expenditure on healthcare across major regions is fueling the production of various medicines, thereby driving pharmaceutical pyridine consumption.

### Environmental Regulations Pose a Key Challenge for Pyridine Market

Pyridine is considered moderately toxic and its improper handling can pose risks to both human health and environment. Prolonged or repeated exposure to pyridine vapors can cause irritation in eyes, skin and respiratory tract in humans. Many countries have framed stringent environmental regulations regarding its production, usage, storage and disposal due to these concerns. For instance, the European Union has classified pyridine as toxic to aquatic life with long lasting effects. Additionally, the US Environment Protection Agency (EPA) has listed pyridine as a hazardous air pollutant. The compliance with various regulatory norms entails additional production and operational costs for pyridine manufacturers. Moreover, impending bans or restrictions on pyridine-based products in some regions can inhibit the market potential to a certain extent over the forecast period.

### Opportunity for Developing Alternative Synthesis Routes

While pyridine holds immense importance as an industrial chemical, the health and environmental impacts of its conventional production methods have amplified the need to develop sustainable alternatives. Researchers across the globe are engaged in devising novel bio-based or green chemical routes for synthesizing pyridine and its derivatives that are eco-friendly. For example, some studies have demonstrated the feasibility of producing pyridine through the carbonylation of aminoalkanes using enzyme biocatalysis. Similarly, metal-free

methods employing flow chemistry are being optimized. Successful commercialization of any such alternative synthesis process can open lucrative opportunities by addressing environmental regulations as well as gaining precedence over incumbent fossil fuel-based production technologies. This also paves way for pyridine market players to further strengthen their position through sustainable innovations.

### Growing Adoption of Nicotine-Based E-Cigarettes Catapults Pyridine Demand

E-cigarettes utilising nicotine derived from pyridine have been witnessing a boom in popularity globally as a less harmful alternative to combustible cigarettes. The high addiction potential of nicotine along with spiraling health awareness has led to a rapid surge in vaping prevalence worldwide. Many individuals are switching to e-cigarettes in view of their perceived benefits over traditional cigarettes. Moreover, the emergence of novel e-cigarette platforms with enhanced performance and sleek designs is attracting a wide consumer base, including the younger demographics. This expanding market for nicotine-based vapor products is propelling substantial demand for pyridine, which acts as a key upstream material in nicotine production. Leading players in the e-cigarette marketplace are aggressively investing in expanding their product portfolios as well as global distribution networks to capitalize on this evolving trend, which bodes well for the future prospects of pyridine market.

Worldwide major and leading players within the market are:

- Jubilant Life Sciences Ltd.
- Lonza Group Ltd.
- Vertellus Specialties Inc.
- Resonance Specialties Limited
- Red Sun Group
- Shandong Luba Chemical Co., Ltd.,
- Koei Chemical Co., Ltd.,
- Weifang Sunwin Chemicals Co., Ltd.,

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### Segmental Overview

Pyridine Market segmentation offers an in-depth analysis of the various segments of the market, including application, type, end use, and region. The segmentation overview section offers crucial information about the market share, sales, and growth rate for each of the segments over the forecast period. Moreover, an examination of the relative multitude of significant sub-portions in the market has been canvassed in the report. Having a knowledge about the various segments and sub-segments helps businesses recognize the importance of factors that drive

industry growth.

The titled segments and sub-section of the Pyridine market are illuminated below:

Global Pyridine Market, By Product Type:

□ By Product Type: Pyridine N-oxide, Alpha Picoline, Beta Picoline, Gamma Picoline, 2-Methyl-5-Ethylpyridine (MEP)

Global Pyridine Market, By Applications:

□ By Application: Pharmaceutical, Agrochemicals, Food, Chemicals (Solvent and Denaturant), Others (Dyestuffs, Alcohol)

Regional Analysis for Pyridine Market:

- North America (United States, Canada, and Mexico)
- Europe (Germany, France, UK, Russia, and Italy)
- Asia-Pacific (China, Japan, Korea, India, and Southeast Asia)
- South America (Brazil, Argentina, Colombia, etc.)
- The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, and South Africa)

Key Highlights of the Report

Offers a comprehensive and holistic analysis of the Pyridine Market.

Evaluates the competitive environments, covering partnerships, joint ventures, acquisitions, and organic growth.

Provides forecast information related to every region and sub-region of the Pyridine market. Includes information on the key opportunities and challenges faced by key industry players worldwide.

Covers the Pyridine market's current and future market outlook on industry drivers, market restraints, and regional constraints.

The report answers a number of crucial questions, including:

- Which companies dominate the global Pyridine market?
- What current trends will influence the Pyridine market over the next few years?
- What are the market's opportunities, obstacles, and driving forces?
- What predictions for the future can help with strategic decision-making?
- What advantages does market research offer businesses?
- Which particular Pyridine market segments should industry players focus on in order to take advantage of the most recent technical advancements?
- What is the anticipated growth rate for the market economy globally?

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