

2,2-Bipyridine Global Market Insights 2025, Analysis and Forecast to 2030, by Manufacturers, Regions, Technology, Application

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Abstracts

2,2-Bipyridine Market Summary

2,2-Bipyridine, also known as 2,2'-Bipyridyl, is a specialized organic compound critical for producing Diquat, a herbicide, as well as applications in pharmaceuticals, photosensitizing dyes, and other areas. This white crystalline powder is valued for its ability to form stable metal complexes, making it a key intermediate in chemical synthesis. In agrochemicals, 2,2-Bipyridine is primarily used to manufacture Diquat, a fast-acting herbicide effective against broadleaf weeds, particularly in regions where paraquat has been banned. In pharmaceuticals, it supports API synthesis, while in photosensitizing dyes, it contributes to advancements in solar energy and related technologies. The market is shaped by the global shift away from paraquat, with Diquat emerging as a viable alternative despite competition from other herbicides like glyphosate and glufosinate.

The global 2,2-Bipyridine market is projected to reach USD 120-240 million by 2030, with a CAGR of 5.5%-8.5%, driven by strong demand in agrochemicals and emerging applications.

Regional Market Trends

The Asia-Pacific region dominates the 2,2-Bipyridine market, with China as the leading producer and consumer, supported by its advanced chemical industry. Countries like Brazil, Thailand, Malaysia, and Vietnam, where paraquat bans have created opportunities for Diquat, are key consumers driving regional demand. India also contributes through its agricultural sector. The Asia-Pacific market is expected to grow



at a CAGR of 6.0%-9.0%, fueled by increasing herbicide use and industrial growth.

North America and Europe are mature markets with a focus on innovation. The United States drives demand in North America through pharmaceutical and agrochemical applications, while Germany leads in Europe with emphasis on high-value uses. Growth in these regions is projected at a CAGR of 4.5%-7.0%, reflecting steady demand tempered by regulatory and sustainability priorities.

Application Trends and Growth

2,2-Bipyridine's applications vary in scope and growth potential.

Diquat: The dominant segment, expected to grow at a CAGR of 6.0%-8.0%, driven by its role as a paraquat substitute in weed control.

Pharmaceuticals: Projected to expand at a CAGR of 5.0%-7.0%, this segment benefits from ongoing drug development.

Photosensitizing Dyes: Anticipated to grow at a CAGR of 4.5%-6.5%, supporting renewable energy technologies like solar cells.

Others: Including specialty chemicals, this category shows moderate growth with potential for future expansion.

Key Market Players

The market is led by Chinese manufacturers with strong production capabilities.

Nanjing Red Sun Co. Ltd.: The largest producer focused on agrochemical intermediates. Shandong Hongda Biological Technology Co. Ltd.: Supports herbicide and pharmaceutical applications. Guangxi Xintiande Energy Co. Ltd.: With a capacity of 5,000 tons, it is a significant supplier. LIER Chemical Co. Ltd.: Operating at 4,000 tons, it specializes in high-quality intermediates.

Porter Five Forces Analysis

Threat of New Entrants: Moderate. Specialized expertise is required, but rising



herbicide demand could attract new players.

Bargaining Power of Suppliers: Low to Moderate. Raw materials are specific but widely available.

Bargaining Power of Buyers: High. Large agricultural firms exert significant influence.

Threat of Substitutes: High. Competing herbicides like glyphosate and glufosinate challenge Diquat's market share.

Industry Rivalry: High. Intense competition among herbicide producers focuses on price and efficacy.

Opportunities and Challenges

Opportunities: Paraquat bans in countries like Brazil and China create opportunities for Diquat, boosting 2,2-Bipyridine demand. Emerging markets and pharmaceutical advancements offer additional growth potential.

Challenges: Competition from alternative herbicides, regulatory restrictions, and environmental concerns pose risks. The concentrated production base in China also introduces supply chain vulnerabilities.



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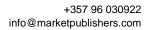
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