

Global Pharmaceutical Grade Dicyandiamide Market Growth 2026-2032

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Abstracts

The global Pharmaceutical Grade Dicyandiamide market size is predicted to grow from US\$ 45.29 million in 2025 to US\$ 56.62 million in 2032; it is expected to grow at a CAGR of 3.2% from 2026 to 2032.

Pharmaceutical Grade Dicyandiamide (DCDA, CAS 461-58-5, molecular formula $C_2H_4N_4$, molecular weight 84.08 g/mol) is a high-purity white crystalline powder with a minimum assay of 99.5% and strict impurity controls, specifically developed for pharmaceutical synthesis applications. It serves as a key intermediate in the production of active pharmaceutical ingredients (APIs) including metformin (an antidiabetic drug), guanidinoacetic acid, and other pharmaceutical compounds. The upstream segment comprises raw material suppliers including calcium cyanamide, cyanamide intermediates, and purification reagents, as well as production equipment providers. The midstream segment includes pharmaceutical grade dicyandiamide manufacturers who convert raw materials through hydrolysis, polymerization, crystallization, filtration, drying, and purification processes, achieving stringent specifications such as water content 0.30%, ash 0.05%, melting point 209-212°C, and calcium 200 ppm. The downstream segment encompasses distribution channels (direct sales to pharmaceutical manufacturers, specialized chemical distributors) and end-users including API manufacturers, generic drug producers, and contract research and manufacturing organizations (CRMOs). The average ex-factory price for pharmaceutical grade dicyandiamide is US\$ 9,500 per ton, with global sales volume reaching 4.87 thousand tons in 2025. Industry gross margins typically range between 15% and 25%.

The global pharmaceutical grade dicyandiamide market is experiencing steady growth driven by several key trends. A primary factor shaping the industry is the sustained demand for metformin, one of the most widely prescribed antidiabetic medications

globally. As diabetes prevalence continues to rise across both developed and emerging economies, the demand for high-purity dicyandiamide as a key precursor in metformin synthesis remains robust. Another significant trend is the increasing regulatory scrutiny on pharmaceutical impurities, which is pushing manufacturers toward higher purity grades and more stringent quality control systems. Pharmaceutical grade dicyandiamide suppliers are required to maintain comprehensive documentation, including residual solvent profiles, heavy metal limits, and impurity fingerprints, to meet Good Manufacturing Practice standards. The market is also witnessing geographic shifts in production capacity, with China establishing itself as the dominant manufacturing hub due to its access to raw materials and cost advantages. Chinese manufacturers have invested significantly in purification technologies to upgrade from industrial grade to pharmaceutical grade products, capturing a larger share of the high-value segment. Concurrently, India has emerged as an important consumer market, with local pharmaceutical companies increasing their dicyandiamide consumption for API production under government initiatives promoting domestic manufacturing. The market is also benefiting from backward integration strategies, where major pharmaceutical companies are investing in captive dicyandiamide production capacity to secure supply chain stability and reduce dependency on external suppliers. Lastly, sustainability considerations are increasingly influencing production processes, with manufacturers exploring greener synthesis routes and waste reduction technologies to minimize environmental impact and comply with tightening environmental regulations.

LP Information, Inc. (LPI) ' newest research report, the "Pharmaceutical Grade Dicyandiamide Industry Forecast" looks at past sales and reviews total world Pharmaceutical Grade Dicyandiamide sales in 2025, providing a comprehensive analysis by region and market sector of projected Pharmaceutical Grade Dicyandiamide sales for 2026 through 2032. With Pharmaceutical Grade Dicyandiamide sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Pharmaceutical Grade Dicyandiamide industry.

This Insight Report provides a comprehensive analysis of the global Pharmaceutical Grade Dicyandiamide landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Pharmaceutical Grade Dicyandiamide portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Pharmaceutical Grade Dicyandiamide market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Pharmaceutical Grade Dicyandiamide and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Pharmaceutical Grade Dicyandiamide.

This report presents a comprehensive overview, market shares, and growth opportunities of Pharmaceutical Grade Dicyandiamide market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

?99%

?99.9%

Segmentation by Physical Form:

Fine Crystalline Powder

Granular Form

Segmentation by Price Tier:

Premium Price (>US\$ 12,000/ton)

Standard Price (US8,500?US8,500?US 12,000/ton)

Economy Price (

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