

Global N,N'-Carbonyldiimidazole (CDI) Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global N,N'-Carbonyldiimidazole (CDI) market size is expected to reach \$ 27.71 million by 2032, rising at a market growth of 3.1% CAGR during the forecast period (2026-2032).

N,N'-Carbonyldiimidazole (also written as 1,1'-carbonyldiimidazole, abbreviated as CDI; CAS 530-62-1, molecular formula $C_7H_8N_2O$) is a versatile reagent used in numerous chemical synthesis processes as a safer equivalent to phosgene. It functions as an efficient coupling and activation agent in the formation of amides, esters, and carbonyl compounds. Due to its stability and reliable performance, it is widely applied in pharmaceutical and industrial production, making it a valuable intermediate in fine and specialty chemical manufacturing.

In 2025, global production of N,N'-Carbonyldiimidazole (CDI) reached approximately 1,328 tons, with an average global market price of around US\$ 17/kg. The gross profit margin is approximately 20%-30%.

Gradual growth, niche scale: CDI demand typically expands at a moderate pace because it is tied to specific synthesis routes (pharma intermediates, peptides) rather than broad commodity uses.

Often campaign / make-to-order production: Many suppliers prefer to organize production by batch/order rather than large-scale upfront stockpiling.

Substitution competition is real in amide/peptide coupling: CDI competes with alternative coupling strategies and reagents (e.g., T3P, HATU in some settings) and with process designs aiming to reduce coupling-reagent usage.

Development speed varies across regions: Asia-Pacific growth is expected to be faster, led by China and India. In parallel, the market shows increasing China/India-based supply depth, supporting faster regional expansion.

Technology trend: Better yield and waste reduction via imidazole recycle loops. Patented industrial routes emphasize neutralizing the imidazole-HCl by-product and recycling imidazole back into CDI production, targeting cost reduction and more sustainable operations.

This report studies the global N,N'-Carbonyldiimidazole (CDI) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for N,N'-Carbonyldiimidazole (CDI) and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of N,N'-Carbonyldiimidazole (CDI) that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global N,N'-Carbonyldiimidazole (CDI) total production and demand, 2021-2032, (Tons)

Global N,N'-Carbonyldiimidazole (CDI) total production value, 2021-2032, (USD Million)

Global N,N'-Carbonyldiimidazole (CDI) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global N,N'-Carbonyldiimidazole (CDI) consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: N,N'-Carbonyldiimidazole (CDI) domestic production, consumption, key domestic manufacturers and share

Global N,N'-Carbonyldiimidazole (CDI) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global N,N'-Carbonyldiimidazole (CDI) production by Type, production, value, CAGR,

2021-2032, (USD Million) & (Tons)

Global N,N'-Carbonyldiimidazole (CDI) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global N,N'-Carbonyldiimidazole (CDI) market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Lanxess, Hodogaya Chemical, Atul, GREEN Life Science, Jiangxi Jinkai Chemical, Zhejiang HuTu PharmChem, Holdenchem, Jiangsu Zhenri Chemical, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World N,N'-Carbonyldiimidazole (CDI) market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global N,N'-Carbonyldiimidazole (CDI) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global N,N'-Carbonyldiimidazole (CDI) Market, Segmentation by Type:

Purity?98%

Purity?98%

Global N,N'-Carbonyldiimidazole (CDI) Market, Segmentation by Sales Channels:

Direct Selling

Distribution

Global N,N'-Carbonyldiimidazole (CDI) Market, Segmentation by Application:

Pharmaceuticals

Peptide Synthesis

Others

Companies Profiled:

Lanxess

Hodogaya Chemical

Atul

GREEN Life Science

Jiangxi Jinkai Chemical

Zhejiang HuTu PharmChem

Holdenchem

Jiangsu Zhenri Chemical

Key Questions Answered:

1. How big is the global N,N'-Carbonyldiimidazole (CDI) market?
2. What is the demand of the global N,N'-Carbonyldiimidazole (CDI) market?
3. What is the year over year growth of the global N,N'-Carbonyldiimidazole (CDI) market?
4. What is the production and production value of the global N,N'-Carbonyldiimidazole (CDI) market?
5. Who are the key producers in the global N,N'-Carbonyldiimidazole (CDI) market?
6. What are the growth factors driving the market demand?

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