

# Global 1,1'-Carbonyldiimidazole (CDI) Market Growth 2026-2032

<https://marketpublishers.com/r/G86743CE5245EN.html>

Date: May 2026

Pages: 101

Price: US\$ 3,660.00 (Single User License)

ID: G86743CE5245EN

## Abstracts

The global 1,1'-Carbonyldiimidazole (CDI) market size is predicted to grow from US\$ 22.08 million in 2025 to US\$ 26.64 million in 2032; it is expected to grow at a CAGR of 3.3% from 2026 to 2032.

1,1'-Carbonyldiimidazole (also written as N,N'-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 1,1'-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.

LP Information, Inc. (LPI) ' newest research report, the ?1,1'-Carbonyldiimidazole (CDI) Industry Forecast? looks at past sales and reviews total world 1,1'-Carbonyldiimidazole (CDI) sales in 2025, providing a comprehensive analysis by region and market sector of projected 1,1'-Carbonyldiimidazole (CDI) sales for 2026 through 2032. With 1,1'-Carbonyldiimidazole (CDI) sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world 1,1'-Carbonyldiimidazole (CDI) industry.

This Insight Report provides a comprehensive analysis of the global 1,1'-Carbonyldiimidazole (CDI) 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 1,1'-Carbonyldiimidazole (CDI) portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global 1,1'-Carbonyldiimidazole (CDI) market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for 1,1'-Carbonyldiimidazole (CDI) 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 1,1'-Carbonyldiimidazole (CDI).

This report presents a comprehensive overview, market shares, and growth opportunities of 1,1'-Carbonyldiimidazole (CDI) market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Purity?98%

Purity?98%

#### Segmentation by Sales Channels:

Direct Selling

Distribution

#### Segmentation by Application:

Pharmaceuticals

Peptide Synthesis

Others

#### This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Lanxess

Hodogaya Chemical

Atul

GREEN Life Science

Jiangxi Jinkai Chemical

Zhejiang HuTu PharmChem

Holdenchem

Jiangsu Zhenri Chemical

### **Key Questions Addressed in this Report**

What is the 10-year outlook for the global 1,1'-Carbonyldiimidazole (CDI) market?

What factors are driving 1,1'-Carbonyldiimidazole (CDI) market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do 1,1'-Carbonyldiimidazole (CDI) market opportunities vary by end market size?

How does 1,1'-Carbonyldiimidazole (CDI) break out by Type, by Application?

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