

Global N,N'-thiocarbonyldiimidazole Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global N,N'-thiocarbonyldiimidazole market size is expected to reach \$ 12.97 million by 2032, rising at a market growth of 3.5% CAGR during the forecast period (2026-2032).

N,N'-Thiocarbonyldiimidazole (also written as 1,1'-Thiocarbonyldiimidazole, abbreviated as TCDI; CAS 6160-65-2) is a thiocarbonyl-transfer reagent and is widely described as the sulfur analogue of carbonyldiimidazole (CDI). Its two imidazole groups are good leaving groups, enabling efficient introduction of a C=S (thiocarbonyl) unit into target molecules.

From a sourcing perspective, the key upstream inputs are therefore imidazole, a thiophosgene (or thiocarbonylating agent) supply, and controlled dry-solvent/inert handling. Downstream, N,N'-Thiocarbonyldiimidazole is used mainly in fine-chemical and pharmaceutical intermediate synthesis where a controllable thiocarbonylating step is needed.

In 2025, global production of N,N'-Thiocarbonyldiimidazole reached approximately 553 tons, with an average global market price of around US\$ 18/kg. The gross profit margin is approximately 20%-30%.

TCDI is best characterized as a niche, performance-critical thiocarbonylation reagent used in fine-chemical and pharmaceutical intermediate workflows. Demand is typically project- and route-driven: usage rises when a synthesis route requires a controlled C=S transfer (e.g., Corey–Winter olefination) rather than being tied to large commodity volumes.

On the supply side, the market tends to favor manufacturers that can manage hazardous upstream chemistry and deliver consistent quality with moisture-protected packaging and controlled storage, because technical documentation emphasizes refrigerated/inert storage and moisture protection. Competitive differentiation therefore often centers on assay/impurity control, batch-to-batch reproducibility, and safe/robust logistics, not simply price. Regionally, industrial availability is increasingly visible in Asia, especially China.

This report studies the global N,N'-thiocarbonyldiimidazole production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for N,N'-thiocarbonyldiimidazole 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'-thiocarbonyldiimidazole that contribute to its increasing demand across many markets.

Highlights and key features of the study

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

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

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

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

U.S. VS China: N,N'-thiocarbonyldiimidazole domestic production, consumption, key domestic manufacturers and share

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

Global N,N'-thiocarbonyldiimidazole production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

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

This report profiles key players in the global N,N'-thiocarbonyldiimidazole 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 Zhejiang HuTu PharmChem, Jiangxi Jinkai Chemical, Changzhou Zhongkai Chemical, I M D (Fujian) Pharmaceutical, 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'-thiocarbonyldiimidazole 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'-thiocarbonyldiimidazole Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global N,N'-thiocarbonyldiimidazole Market, Segmentation by Type:

Purity?98%

Purity?98%

Global N,N'-thiocarbonyldiimidazole Market, Segmentation by Sales Channels:

Direct Selling

Distribution

Global N,N'-thiocarbonyldiimidazole Market, Segmentation by Grade:

Pharmaceutical Grade

Industrial Grade

Global N,N'-thiocarbonyldiimidazole Market, Segmentation by Application:

Pharmaceuticals

Chemicals

Other

Companies Profiled:

Zhejiang HuTu PharmChem

Jiangxi Jinkai Chemical

Changzhou Zhongkai Chemical

I M D (Fujian) Pharmaceutical

Key Questions Answered:

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

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