

Global 1,1?-Thiocarbonyldiimidazole (TCDI) Market Growth 2026-2032

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Abstracts

The global 1,1?-Thiocarbonyldiimidazole (TCDI) market size is predicted to grow from US\$ 9.64 million in 2025 to US\$ 12.49 million in 2032; it is expected to grow at a CAGR of 3.7% from 2026 to 2032.

1,1?-Thiocarbonyldiimidazole (TCDI) (also called di(1H-imidazol-1-yl)methanethione; CAS 6160-65-2) is the sulfur analogue of carbonyldiimidazole (CDI). It functions as a thiocarbonyl-transfer / thiocarbonylation reagent: the thiocarbonyl center (C=S) is activated by two imidazole leaving groups, enabling efficient formation of sulfur-containing carbonyl derivatives.

Upstream, industrially and in standard synthetic practice, TCDI can be prepared by reacting thiophosgene with two equivalents of imidazole under anhydrous, inert conditions (typical solvents mentioned include THF or dichloromethane). Downstream, a common industrially relevant use is forming cyclic thionocarbonates from vicinal diols for the Corey-Winter olefination (diol \rightarrow alkene). It is also used in peptide chemistry and in the preparation of thioamides / thiocarbamates / related sulfur-carbonyl derivatives in fine-chemical and pharmaceutical intermediate synthesis.

In 2025, global production of 1,1?-Thiocarbonyldiimidazole (TCDI) reached approximately 553 tons, with an average global market price of around US\$ 18/kg. The gross profit margin is approximately 20%-30%.

United States market for 1,1?-Thiocarbonyldiimidazole (TCDI) is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for 1,1?-Thiocarbonyldiimidazole (TCDI) is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for 1,1?-Thiocarbonyldiimidazole (TCDI) is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key 1,1?-Thiocarbonyldiimidazole (TCDI) players cover Zhejiang HuTu PharmChem, Jiangxi Jinkai Chemical, Changzhou Zhongkai Chemical, I M D (Fujian) Pharmaceutical, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for 1,1?-Thiocarbonyldiimidazole (TCDI) 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?-Thiocarbonyldiimidazole (TCDI).

This report presents a comprehensive overview, market shares, and growth opportunities of 1,1?-Thiocarbonyldiimidazole (TCDI) 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 End Use:

Pharmaceutical Use

Chemical Use

Other

Segmentation by Application:

Pharmaceuticals

Chemicals

Other

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.

Zhejiang HuTu PharmChem

Jiangxi Jinkai Chemical

Changzhou Zhongkai Chemical

I M D (Fujian) Pharmaceutical

Key Questions Addressed in this Report

What is the 10-year outlook for the global 1,1?-Thiocarbonyldiimidazole (TCDI) market?

What factors are driving 1,1?-Thiocarbonyldiimidazole (TCDI) market growth, globally and by region?

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

How do 1,1?-Thiocarbonyldiimidazole (TCDI) market opportunities vary by end market size?

How does 1,1?-Thiocarbonyldiimidazole (TCDI) break out by Type, by Application?

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