

Global 1,1?-Thiocarbonyldiimidazole (TCDI) Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global 1,1?-Thiocarbonyldiimidazole (TCDI) 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).

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 ? 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%.

This report studies the global 1,1?-Thiocarbonyldiimidazole (TCDI) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for

1,1?-Thiocarbonyldiimidazole (TCDI) 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 1,1?-Thiocarbonyldiimidazole (TCDI) that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global 1,1?-Thiocarbonyldiimidazole (TCDI) total production and demand, 2021-2032, (Tons)

Global 1,1?-Thiocarbonyldiimidazole (TCDI) total production value, 2021-2032, (USD Million)

Global 1,1?-Thiocarbonyldiimidazole (TCDI) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global 1,1?-Thiocarbonyldiimidazole (TCDI) consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: 1,1?-Thiocarbonyldiimidazole (TCDI) domestic production, consumption, key domestic manufacturers and share

Global 1,1?-Thiocarbonyldiimidazole (TCDI) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global 1,1?-Thiocarbonyldiimidazole (TCDI) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global 1,1?-Thiocarbonyldiimidazole (TCDI) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global 1,1?-Thiocarbonyldiimidazole (TCDI) 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 1,1?-Thiocarbonyldiimidazole (TCDI) 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 1,1'-Thiocarbonyldiimidazole (TCDI) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global 1,1'-Thiocarbonyldiimidazole (TCDI) Market, Segmentation by Type:

Purity?98%

Purity?98%

Global 1,1'-Thiocarbonyldiimidazole (TCDI) Market, Segmentation by Sales Channels:

Direct Selling

Distribution

Global 1,1'-Thiocarbonyldiimidazole (TCDI) Market, Segmentation by End Use:

Pharmaceutical Use

Chemical Use

Other

Global 1,1?-Thiocarbonyldiimidazole (TCDI) 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 1,1?-Thiocarbonyldiimidazole (TCDI) market?
2. What is the demand of the global 1,1?-Thiocarbonyldiimidazole (TCDI) market?
3. What is the year over year growth of the global 1,1?-Thiocarbonyldiimidazole (TCDI) market?
4. What is the production and production value of the global 1,1?-Thiocarbonyldiimidazole (TCDI) market?
5. Who are the key producers in the global 1,1?-Thiocarbonyldiimidazole (TCDI) market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 1,1?-Thiocarbonyldiimidazole (TCDI) Introduction
- 1.2 World 1,1?-Thiocarbonyldiimidazole (TCDI) Supply & Forecast
 - 1.2.1 World 1,1?-Thiocarbonyldiimidazole (TCDI) Production Value (2021 & 2025 & 2032)
 - 1.2.2 World 1,1?-Thiocarbonyldiimidazole (TCDI) Production (2021-2032)
 - 1.2.3 World 1,1?-Thiocarbonyldiimidazole (TCDI) Pricing Trends (2021-2032)
- 1.3 World 1,1?-Thiocarbonyldiimidazole (TCDI) Production by Region (Based on Production Site)
 - 1.3.1 World 1,1?-Thiocarbonyldiimidazole (TCDI) Production Value by Region (2021-2032)
 - 1.3.2 World 1,1?-Thiocarbonyldiimidazole (TCDI) Production by Region (2021-2032)
 - 1.3.3 World 1,1?-Thiocarbonyldiimidazole (TCDI) Average Price by Region (2021-2032)
 - 1.3.4 China 1,1?-Thiocarbonyldiimidazole (TCDI) Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 1,1?-Thiocarbonyldiimidazole (TCDI) Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 1,1?-Thiocarbonyldiimidazole (TCDI) Major Market Trends

2 DEMAND SUMMARY

- 2.1 World 1,1?-Thiocarbonyldiimidazole (TCDI) Demand (2021-2032)
- 2.2 World 1,1?-Thiocarbonyldiimidazole (TCDI) Consumption by Region
 - 2.2.1 World 1,1?-Thiocarbonyldiimidazole (TCDI) Consumption by Region (2021-2026)
 - 2.2.2 World 1,1?-Thiocarbonyldiimidazole (TCDI) Consumption Forecast by Region (2027-2032)
- 2.3 United States 1,1?-Thiocarbonyldiimidazole (TCDI) Consumption (2021-2032)
- 2.4 China 1,1?-Thiocarbonyldiimidazole (TCDI) Consumption (2021-2032)
- 2.5 Europe 1,1?-Thiocarbonyldiimidazole (TCDI) Consumption (2021-2032)
- 2.6 Japan 1,1?-Thiocarbonyldiimidazole (TCDI) Consumption (2021-2032)
- 2.7 South Korea 1,1?-Thiocarbonyldiimidazole (TCDI) Consumption (2021-2032)
- 2.8 ASEAN 1,1?-Thiocarbonyldiimidazole (TCDI) Consumption (2021-2032)
- 2.9 India 1,1?-Thiocarbonyldiimidazole (TCDI) Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World 1,1?-Thiocarbonyldiimidazole (TCDI) Production Value by Manufacturer (2021-2026)
- 3.2 World 1,1?-Thiocarbonyldiimidazole (TCDI) Production by Manufacturer (2021-2026)
- 3.3 World 1,1?-Thiocarbonyldiimidazole (TCDI) Average Price by Manufacturer (2021-2026)
- 3.4 1,1?-Thiocarbonyldiimidazole (TCDI) Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global 1,1?-Thiocarbonyldiimidazole (TCDI) Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for 1,1?-Thiocarbonyldiimidazole (TCDI) in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for 1,1?-Thiocarbonyldiimidazole (TCDI) in 2025
- 3.6 1,1?-Thiocarbonyldiimidazole (TCDI) Market: Overall Company Footprint Analysis
 - 3.6.1 1,1?-Thiocarbonyldiimidazole (TCDI) Market: Region Footprint
 - 3.6.2 1,1?-Thiocarbonyldiimidazole (TCDI) Market: Company Product Type Footprint
 - 3.6.3 1,1?-Thiocarbonyldiimidazole (TCDI) Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: 1,1?-Thiocarbonyldiimidazole (TCDI) Production Value Comparison
 - 4.1.1 United States VS China: 1,1?-Thiocarbonyldiimidazole (TCDI) Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: 1,1?-Thiocarbonyldiimidazole (TCDI) Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: 1,1?-Thiocarbonyldiimidazole (TCDI) Production Comparison
 - 4.2.1 United States VS China: 1,1?-Thiocarbonyldiimidazole (TCDI) Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: 1,1?-Thiocarbonyldiimidazole (TCDI) Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: 1,1?-Thiocarbonyldiimidazole (TCDI) Consumption Comparison

4.3.1 United States VS China: 1,1?-Thiocarbonyldiimidazole (TCDI) Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: 1,1?-Thiocarbonyldiimidazole (TCDI) Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based 1,1?-Thiocarbonyldiimidazole (TCDI) Manufacturers and Market Share, 2021-2026

4.4.1 United States Based 1,1?-Thiocarbonyldiimidazole (TCDI) Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers 1,1?-Thiocarbonyldiimidazole (TCDI) Production Value (2021-2026)

4.4.3 United States Based Manufacturers 1,1?-Thiocarbonyldiimidazole (TCDI) Production (2021-2026)

4.5 China Based 1,1?-Thiocarbonyldiimidazole (TCDI) Manufacturers and Market Share

4.5.1 China Based 1,1?-Thiocarbonyldiimidazole (TCDI) Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers 1,1?-Thiocarbonyldiimidazole (TCDI) Production Value (2021-2026)

4.5.3 China Based Manufacturers 1,1?-Thiocarbonyldiimidazole (TCDI) Production (2021-2026)

4.6 Rest of World Based 1,1?-Thiocarbonyldiimidazole (TCDI) Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based 1,1?-Thiocarbonyldiimidazole (TCDI) Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers 1,1?-Thiocarbonyldiimidazole (TCDI) Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers 1,1?-Thiocarbonyldiimidazole (TCDI) Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World 1,1?-Thiocarbonyldiimidazole (TCDI) Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Purity?98%

5.2.2 Purity?98%

5.3 Market Segment by Type

5.3.1 World 1,1?-Thiocarbonyldiimidazole (TCDI) Production by Type (2021-2032)

5.3.2 World 1,1?-Thiocarbonyldiimidazole (TCDI) Production Value by Type (2021-2032)

5.3.3 World 1,1?-Thiocarbonyldiimidazole (TCDI) Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY SALES CHANNELS

6.1 World 1,1?-Thiocarbonyldiimidazole (TCDI) Market Size Overview by Sales Channels: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Sales Channels

6.2.1 Direct Selling

6.2.2 Distribution

6.3 Market Segment by Sales Channels

6.3.1 World 1,1?-Thiocarbonyldiimidazole (TCDI) Production by Sales Channels (2021-2032)

6.3.2 World 1,1?-Thiocarbonyldiimidazole (TCDI) Production Value by Sales Channels (2021-2032)

6.3.3 World 1,1?-Thiocarbonyldiimidazole (TCDI) Average Price by Sales Channels (2021-2032)

7 MARKET ANALYSIS BY END USE

7.1 World 1,1?-Thiocarbonyldiimidazole (TCDI) Market Size Overview by End Use: 2021 VS 2025 VS 2032

7.2 Segment Introduction by End Use

7.2.1 Pharmaceutical Use

7.2.2 Chemical Use

7.2.3 Other

7.3 Market Segment by End Use

7.3.1 World 1,1?-Thiocarbonyldiimidazole (TCDI) Production by End Use (2021-2032)

7.3.2 World 1,1?-Thiocarbonyldiimidazole (TCDI) Production Value by End Use (2021-2032)

7.3.3 World 1,1?-Thiocarbonyldiimidazole (TCDI) Average Price by End Use (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World 1,1?-Thiocarbonyldiimidazole (TCDI) Market Size Overview by Application:

2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Pharmaceuticals

8.2.2 Chemicals

8.2.3 Other

8.3 Market Segment by Application

8.3.1 World 1,1?-Thiocarbonyldiimidazole (TCDI) Production by Application (2021-2032)

8.3.2 World 1,1?-Thiocarbonyldiimidazole (TCDI) Production Value by Application (2021-2032)

8.3.3 World 1,1?-Thiocarbonyldiimidazole (TCDI) Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Zhejiang HuTu PharmChem

9.1.1 Zhejiang HuTu PharmChem Details

9.1.2 Zhejiang HuTu PharmChem Major Business

9.1.3 Zhejiang HuTu PharmChem 1,1?-Thiocarbonyldiimidazole (TCDI) Product and Services

9.1.4 Zhejiang HuTu PharmChem 1,1?-Thiocarbonyldiimidazole (TCDI) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Zhejiang HuTu PharmChem Recent Developments/Updates

9.1.6 Zhejiang HuTu PharmChem Competitive Strengths & Weaknesses

9.2 Jiangxi Jinkai Chemical

9.2.1 Jiangxi Jinkai Chemical Details

9.2.2 Jiangxi Jinkai Chemical Major Business

9.2.3 Jiangxi Jinkai Chemical 1,1?-Thiocarbonyldiimidazole (TCDI) Product and Services

9.2.4 Jiangxi Jinkai Chemical 1,1?-Thiocarbonyldiimidazole (TCDI) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Jiangxi Jinkai Chemical Recent Developments/Updates

9.2.6 Jiangxi Jinkai Chemical Competitive Strengths & Weaknesses

9.3 Changzhou Zhongkai Chemical

9.3.1 Changzhou Zhongkai Chemical Details

9.3.2 Changzhou Zhongkai Chemical Major Business

9.3.3 Changzhou Zhongkai Chemical 1,1?-Thiocarbonyldiimidazole (TCDI) Product and Services

9.3.4 Changzhou Zhongkai Chemical 1,1?-Thiocarbonyldiimidazole (TCDI) Production,

Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Changzhou Zhongkai Chemical Recent Developments/Updates

9.3.6 Changzhou Zhongkai Chemical Competitive Strengths & Weaknesses

9.4 I M D (Fujian) Pharmaceutical

9.4.1 I M D (Fujian) Pharmaceutical Details

9.4.2 I M D (Fujian) Pharmaceutical Major Business

9.4.3 I M D (Fujian) Pharmaceutical 1,1?-Thiocarbonyldiimidazole (TCDI) Product and Services

9.4.4 I M D (Fujian) Pharmaceutical 1,1?-Thiocarbonyldiimidazole (TCDI) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 I M D (Fujian) Pharmaceutical Recent Developments/Updates

9.4.6 I M D (Fujian) Pharmaceutical Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 1,1?-Thiocarbonyldiimidazole (TCDI) Industry Chain

10.2 1,1?-Thiocarbonyldiimidazole (TCDI) Upstream Analysis

10.2.1 1,1?-Thiocarbonyldiimidazole (TCDI) Core Raw Materials

10.2.2 Main Manufacturers of 1,1?-Thiocarbonyldiimidazole (TCDI) Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 1,1?-Thiocarbonyldiimidazole (TCDI) Production Mode

10.6 1,1?-Thiocarbonyldiimidazole (TCDI) Procurement Model

10.7 1,1?-Thiocarbonyldiimidazole (TCDI) Industry Sales Model and Sales Channels

10.7.1 1,1?-Thiocarbonyldiimidazole (TCDI) Sales Model

10.7.2 1,1?-Thiocarbonyldiimidazole (TCDI) Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World 1,1?-Thiocarbonyldiimidazole (TCDI) Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World 1,1?-Thiocarbonyldiimidazole (TCDI) Production Value by Region (2021-2026) & (USD Million)

Table 3. World 1,1?-Thiocarbonyldiimidazole (TCDI) Production Value by Region (2027-2032) & (USD Million)

Table 4. World 1,1?-Thiocarbonyldiimidazole (TCDI) Production Value Market Share by Region (2021-2026)

Table 5. World 1,1?-Thiocarbonyldiimidazole (TCDI) Production Value Market Share by Region (2027-2032)

Table 6. World 1,1?-Thiocarbonyldiimidazole (TCDI) Production by Region (2021-2026) & (Tons)

Table 7. World 1,1?-Thiocarbonyldiimidazole (TCDI) Production by Region (2027-2032) & (Tons)

Table 8. World 1,1?-Thiocarbonyldiimidazole (TCDI) Production Market Share by Region (2021-2026)

Table 9. World 1,1?-Thiocarbonyldiimidazole (TCDI) Production Market Share by Region (2027-2032)

Table 10. World 1,1?-Thiocarbonyldiimidazole (TCDI) Average Price by Region (2021-2026) & (US\$/Ton)

Table 11. World 1,1?-Thiocarbonyldiimidazole (TCDI) Average Price by Region (2027-2032) & (US\$/Ton)

Table 12. 1,1?-Thiocarbonyldiimidazole (TCDI) Major Market Trends

Table 13. World 1,1?-Thiocarbonyldiimidazole (TCDI) Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Tons)

Table 14. World 1,1?-Thiocarbonyldiimidazole (TCDI) Consumption by Region (2021-2026) & (Tons)

Table 15. World 1,1?-Thiocarbonyldiimidazole (TCDI) Consumption Forecast by Region (2027-2032) & (Tons)

Table 16. World 1,1?-Thiocarbonyldiimidazole (TCDI) Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key 1,1?-Thiocarbonyldiimidazole (TCDI) Producers in 2025

Table 18. World 1,1?-Thiocarbonyldiimidazole (TCDI) Production by Manufacturer (2021-2026) & (Tons)

Table 19. Production Market Share of Key 1,1?-Thiocarbonyldiimidazole (TCDI) Producers in 2025

Table 20. World 1,1?-Thiocarbonyldiimidazole (TCDI) Average Price by Manufacturer (2021-2026) & (US\$/Ton)

Table 21. Global 1,1?-Thiocarbonyldiimidazole (TCDI) Company Evaluation Quadrant

Table 22. World 1,1?-Thiocarbonyldiimidazole (TCDI) Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and 1,1?-Thiocarbonyldiimidazole (TCDI) Production Site of Key Manufacturer

Table 24. 1,1?-Thiocarbonyldiimidazole (TCDI) Market: Company Product Type Footprint

Table 25. 1,1?-Thiocarbonyldiimidazole (TCDI) Market: Company Product Application Footprint

Table 26. 1,1?-Thiocarbonyldiimidazole (TCDI) Competitive Factors

Table 27. 1,1?-Thiocarbonyldiimidazole (TCDI) New Entrant and Capacity Expansion Plans

Table 28. 1,1?-Thiocarbonyldiimidazole (TCDI) Mergers & Acquisitions Activity

Table 29. United States VS China 1,1?-Thiocarbonyldiimidazole (TCDI) Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China 1,1?-Thiocarbonyldiimidazole (TCDI) Production Comparison, (2021 & 2025 & 2032) & (Tons)

Table 31. United States VS China 1,1?-Thiocarbonyldiimidazole (TCDI) Consumption Comparison, (2021 & 2025 & 2032) & (Tons)

Table 32. United States Based 1,1?-Thiocarbonyldiimidazole (TCDI) Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers 1,1?-Thiocarbonyldiimidazole (TCDI) Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers 1,1?-Thiocarbonyldiimidazole (TCDI) Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers 1,1?-Thiocarbonyldiimidazole (TCDI) Production (2021-2026) & (Tons)

Table 36. United States Based Manufacturers 1,1?-Thiocarbonyldiimidazole (TCDI) Production Market Share (2021-2026)

Table 37. China Based 1,1?-Thiocarbonyldiimidazole (TCDI) Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers 1,1?-Thiocarbonyldiimidazole (TCDI) Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers 1,1?-Thiocarbonyldiimidazole (TCDI) Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers 1,1?-Thiocarbonyldiimidazole (TCDI) Production, (2021-2026) & (Tons)

Table 41. China Based Manufacturers 1,1?-Thiocarbonyldiimidazole (TCDI) Production Market Share (2021-2026)

Table 42. Rest of World Based 1,1?-Thiocarbonyldiimidazole (TCDI) Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers 1,1?-Thiocarbonyldiimidazole (TCDI) Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers 1,1?-Thiocarbonyldiimidazole (TCDI) Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers 1,1?-Thiocarbonyldiimidazole (TCDI) Production, (2021-2026) & (Tons)

Table 46. Rest of World Based Manufacturers 1,1?-Thiocarbonyldiimidazole (TCDI) Production Market Share (2021-2026)

Table 47. World 1,1?-Thiocarbonyldiimidazole (TCDI) Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World 1,1?-Thiocarbonyldiimidazole (TCDI) Production by Type (2021-2026) & (Tons)

Table 49. World 1,1?-Thiocarbonyldiimidazole (TCDI) Production by Type (2027-2032) & (Tons)

Table 50. World 1,1?-Thiocarbonyldiimidazole (TCDI) Production Value by Type (2021-2026) & (USD Million)

Table 51. World 1,1?-Thiocarbonyldiimidazole (TCDI) Production Value by Type (2027-2032) & (USD Million)

Table 52. World 1,1?-Thiocarbonyldiimidazole (TCDI) Average Price by Type (2021-2026) & (US\$/Ton)

Table 53. World 1,1?-Thiocarbonyldiimidazole (TCDI) Average Price by Type (2027-2032) & (US\$/Ton)

Table 54. World 1,1?-Thiocarbonyldiimidazole (TCDI) Production Value by Sales Channels, (USD Million), 2021 & 2025 & 2032

Table 55. World 1,1?-Thiocarbonyldiimidazole (TCDI) Production by Sales Channels (2021-2026) & (Tons)

Table 56. World 1,1?-Thiocarbonyldiimidazole (TCDI) Production by Sales Channels (2027-2032) & (Tons)

Table 57. World 1,1?-Thiocarbonyldiimidazole (TCDI) Production Value by Sales Channels (2021-2026) & (USD Million)

Table 58. World 1,1?-Thiocarbonyldiimidazole (TCDI) Production Value by Sales Channels (2027-2032) & (USD Million)

Table 59. World 1,1?-Thiocarbonyldiimidazole (TCDI) Average Price by Sales Channels

(2021-2026) & (US\$/Ton)

Table 60. World 1,1?-Thiocarbonyldiimidazole (TCDI) Average Price by Sales Channels (2027-2032) & (US\$/Ton)

Table 61. World 1,1?-Thiocarbonyldiimidazole (TCDI) Production Value by End Use, (USD Million), 2021 & 2025 & 2032

Table 62. World 1,1?-Thiocarbonyldiimidazole (TCDI) Production by End Use (2021-2026) & (Tons)

Table 63. World 1,1?-Thiocarbonyldiimidazole (TCDI) Production by End Use (2027-2032) & (Tons)

Table 64. World 1,1?-Thiocarbonyldiimidazole (TCDI) Production Value by End Use (2021-2026) & (USD Million)

Table 65. World 1,1?-Thiocarbonyldiimidazole (TCDI) Production Value by End Use (2027-2032) & (USD Million)

Table 66. World 1,1?-Thiocarbonyldiimidazole (TCDI) Average Price by End Use (2021-2026) & (US\$/Ton)

Table 67. World 1,1?-Thiocarbonyldiimidazole (TCDI) Average Price by End Use (2027-2032) & (US\$/Ton)

Table 68. World 1,1?-Thiocarbonyldiimidazole (TCDI) Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World 1,1?-Thiocarbonyldiimidazole (TCDI) Production by Application (2021-2026) & (Tons)

Table 70. World 1,1?-Thiocarbonyldiimidazole (TCDI) Production by Application (2027-2032) & (Tons)

Table 71. World 1,1?-Thiocarbonyldiimidazole (TCDI) Production Value by Application (2021-2026) & (USD Million)

Table 72. World 1,1?-Thiocarbonyldiimidazole (TCDI) Production Value by Application (2027-2032) & (USD Million)

Table 73. World 1,1?-Thiocarbonyldiimidazole (TCDI) Average Price by Application (2021-2026) & (US\$/Ton)

Table 74. World 1,1?-Thiocarbonyldiimidazole (TCDI) Average Price by Application (2027-2032) & (US\$/Ton)

Table 75. Zhejiang HuTu PharmChem Basic Information, Manufacturing Base and Competitors

Table 76. Zhejiang HuTu PharmChem Major Business

Table 77. Zhejiang HuTu PharmChem 1,1?-Thiocarbonyldiimidazole (TCDI) Product and Services

Table 78. Zhejiang HuTu PharmChem 1,1?-Thiocarbonyldiimidazole (TCDI) Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Zhejiang HuTu PharmChem Recent Developments/Updates

Table 80. Zhejiang HuTu PharmChem Competitive Strengths & Weaknesses

Table 81. Jiangxi Jinkai Chemical Basic Information, Manufacturing Base and Competitors

Table 82. Jiangxi Jinkai Chemical Major Business

Table 83. Jiangxi Jinkai Chemical 1,1?-Thiocarbonyldiimidazole (TCDI) Product and Services

Table 84. Jiangxi Jinkai Chemical 1,1?-Thiocarbonyldiimidazole (TCDI) Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Jiangxi Jinkai Chemical Recent Developments/Updates

Table 86. Jiangxi Jinkai Chemical Competitive Strengths & Weaknesses

Table 87. Changzhou Zhongkai Chemical Basic Information, Manufacturing Base and Competitors

Table 88. Changzhou Zhongkai Chemical Major Business

Table 89. Changzhou Zhongkai Chemical 1,1?-Thiocarbonyldiimidazole (TCDI) Product and Services

Table 90. Changzhou Zhongkai Chemical 1,1?-Thiocarbonyldiimidazole (TCDI) Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Changzhou Zhongkai Chemical Recent Developments/Updates

Table 92. Changzhou Zhongkai Chemical Competitive Strengths & Weaknesses

Table 93. I M D (Fujian) Pharmaceutical Basic Information, Manufacturing Base and Competitors

Table 94. I M D (Fujian) Pharmaceutical Major Business

Table 95. I M D (Fujian) Pharmaceutical 1,1?-Thiocarbonyldiimidazole (TCDI) Product and Services

Table 96. I M D (Fujian) Pharmaceutical 1,1?-Thiocarbonyldiimidazole (TCDI) Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. I M D (Fujian) Pharmaceutical Recent Developments/Updates

Table 98. I M D (Fujian) Pharmaceutical Competitive Strengths & Weaknesses

Table 99. Global Key Players of 1,1?-Thiocarbonyldiimidazole (TCDI) Upstream (Raw Materials)

Table 100. Global 1,1?-Thiocarbonyldiimidazole (TCDI) Typical Customers

Table 101. 1,1?-Thiocarbonyldiimidazole (TCDI) Typical Distributors

List Of Figures

LIST OF FIGURES

- Figure 1. 1,1?-Thiocarbonyldiimidazole (TCDI) Picture
- Figure 2. World 1,1?-Thiocarbonyldiimidazole (TCDI) Production Value: 2021 & 2025 & 2032, (USD Million)
- Figure 3. World 1,1?-Thiocarbonyldiimidazole (TCDI) Production Value and Forecast (2021-2032) & (USD Million)
- Figure 4. World 1,1?-Thiocarbonyldiimidazole (TCDI) Production (2021-2032) & (Tons)
- Figure 5. World 1,1?-Thiocarbonyldiimidazole (TCDI) Average Price (2021-2032) & (US\$/Ton)
- Figure 6. World 1,1?-Thiocarbonyldiimidazole (TCDI) Production Value Market Share by Region (2021-2032)
- Figure 7. World 1,1?-Thiocarbonyldiimidazole (TCDI) Production Market Share by Region (2021-2032)
- Figure 8. China 1,1?-Thiocarbonyldiimidazole (TCDI) Production (2021-2032) & (Tons)
- Figure 9. 1,1?-Thiocarbonyldiimidazole (TCDI) Market Drivers
- Figure 10. Factors Affecting Demand
- Figure 11. World 1,1?-Thiocarbonyldiimidazole (TCDI) Consumption (2021-2032) & (Tons)
- Figure 12. World 1,1?-Thiocarbonyldiimidazole (TCDI) Consumption Market Share by Region (2021-2032)
- Figure 13. United States 1,1?-Thiocarbonyldiimidazole (TCDI) Consumption (2021-2032) & (Tons)
- Figure 14. China 1,1?-Thiocarbonyldiimidazole (TCDI) Consumption (2021-2032) & (Tons)
- Figure 15. Europe 1,1?-Thiocarbonyldiimidazole (TCDI) Consumption (2021-2032) & (Tons)
- Figure 16. Japan 1,1?-Thiocarbonyldiimidazole (TCDI) Consumption (2021-2032) & (Tons)
- Figure 17. South Korea 1,1?-Thiocarbonyldiimidazole (TCDI) Consumption (2021-2032) & (Tons)
- Figure 18. ASEAN 1,1?-Thiocarbonyldiimidazole (TCDI) Consumption (2021-2032) & (Tons)
- Figure 19. India 1,1?-Thiocarbonyldiimidazole (TCDI) Consumption (2021-2032) & (Tons)
- Figure 20. Producer Shipments of 1,1?-Thiocarbonyldiimidazole (TCDI) by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 21. Global Four-firm Concentration Ratios (CR4) for 1,1?-Thiocarbonyldiimidazole (TCDI) Markets in 2025

Figure 22. Global Four-firm Concentration Ratios (CR8) for 1,1?-Thiocarbonyldiimidazole (TCDI) Markets in 2025

Figure 23. United States VS China: 1,1?-Thiocarbonyldiimidazole (TCDI) Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 24. United States VS China: 1,1?-Thiocarbonyldiimidazole (TCDI) Production Market Share Comparison (2021 & 2025 & 2032)

Figure 25. United States VS China: 1,1?-Thiocarbonyldiimidazole (TCDI) Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 26. United States Based Manufacturers 1,1?-Thiocarbonyldiimidazole (TCDI) Production Market Share 2025

Figure 27. China Based Manufacturers 1,1?-Thiocarbonyldiimidazole (TCDI) Production Market Share 2025

Figure 28. Rest of World Based Manufacturers 1,1?-Thiocarbonyldiimidazole (TCDI) Production Market Share 2025

Figure 29. World 1,1?-Thiocarbonyldiimidazole (TCDI) Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 30. World 1,1?-Thiocarbonyldiimidazole (TCDI) Production Value Market Share by Type in 2025

Figure 31. Purity?98%

Figure 32. Purity?98%

Figure 33. World 1,1?-Thiocarbonyldiimidazole (TCDI) Production Market Share by Type (2021-2032)

Figure 34. World 1,1?-Thiocarbonyldiimidazole (TCDI) Production Value Market Share by Type (2021-2032)

Figure 35. World 1,1?-Thiocarbonyldiimidazole (TCDI) Average Price by Type (2021-2032) & (US\$/Ton)

Figure 36. World 1,1?-Thiocarbonyldiimidazole (TCDI) Production Value by Sales Channels, (USD Million), 2021 & 2025 & 2032

Figure 37. World 1,1?-Thiocarbonyldiimidazole (TCDI) Production Value Market Share by Sales Channels in 2025

Figure 38. Direct Selling

Figure 39. Distribution

Figure 40. World 1,1?-Thiocarbonyldiimidazole (TCDI) Production Market Share by Sales Channels (2021-2032)

Figure 41. World 1,1?-Thiocarbonyldiimidazole (TCDI) Production Value Market Share by Sales Channels (2021-2032)

Figure 42. World 1,1?-Thiocarbonyldiimidazole (TCDI) Average Price by Sales

Channels (2021-2032) & (US\$/Ton)

Figure 43. World 1,1?-Thiocarbonyldiimidazole (TCDI) Production Value by End Use, (USD Million), 2021 & 2025 & 2032

Figure 44. World 1,1?-Thiocarbonyldiimidazole (TCDI) Production Value Market Share by End Use in 2025

Figure 45. Pharmaceutical Use

Figure 46. Chemical Use

Figure 47. Other

Figure 48. World 1,1?-Thiocarbonyldiimidazole (TCDI) Production Market Share by End Use (2021-2032)

Figure 49. World 1,1?-Thiocarbonyldiimidazole (TCDI) Production Value Market Share by End Use (2021-2032)

Figure 50. World 1,1?-Thiocarbonyldiimidazole (TCDI) Average Price by End Use (2021-2032) & (US\$/Ton)

Figure 51. World 1,1?-Thiocarbonyldiimidazole (TCDI) Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 52. World 1,1?-Thiocarbonyldiimidazole (TCDI) Production Value Market Share by Application in 2025

Figure 53. Pharmaceuticals

Figure 54. Chemicals

Figure 55. Other

Figure 56. World 1,1?-Thiocarbonyldiimidazole (TCDI) Production Market Share by Application (2021-2032)

Figure 57. World 1,1?-Thiocarbonyldiimidazole (TCDI) Production Value Market Share by Application (2021-2032)

Figure 58. World 1,1?-Thiocarbonyldiimidazole (TCDI) Average Price by Application (2021-2032) & (US\$/Ton)

Figure 59. 1,1?-Thiocarbonyldiimidazole (TCDI) Industry Chain

Figure 60. 1,1?-Thiocarbonyldiimidazole (TCDI) Procurement Model

Figure 61. 1,1?-Thiocarbonyldiimidazole (TCDI) Sales Model

Figure 62. 1,1?-Thiocarbonyldiimidazole (TCDI) Sales Channels, Direct Sales, and Distribution

Figure 63. Methodology

Figure 64. Research Process and Data Source

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