

# Global 1-Methyl-1H-tetrazole-5-thiol Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global 1-Methyl-1H-tetrazole-5-thiol market size is expected to reach \$ 36.30 million by 2032, rising at a market growth of 4.9% CAGR during the forecast period (2026-2032).

1-Methyl-1H-tetrazole-5-thiol is an extremely important pharmaceutical intermediate and fine chemical. Physically, it is a white or off-white crystalline powder with a faint sulfurous odor. Chemically, it belongs to the sulfur-containing five-membered heterocyclic compound family, and its thiol group (-SH) exhibits strong nucleophilicity. In the pharmaceutical industry, methyl-1h-tetrazole is mainly used to synthesize various highly effective broad-spectrum cephalosporin antibiotics. It is the core raw material for the 3-position side chain of drugs such as cefoperazone, cefmetazole, cefamandole, and cefotiam. Introducing this gene into the cephalosporin nucleus can significantly enhance the drug's stability against  $\beta$ -lactamases and its antibacterial spectrum. Besides the pharmaceutical field, due to its excellent chemical activity, it is also widely used in the imaging industry as an anti-fogging agent for photosensitive materials and as a metal corrosion protectant in microelectronics manufacturing. In 2025, the global annual production of 1-methyl-1h-tetrazole-5-thiol was 2,312 tons, with a selling price of US\$10,900 per ton. The annual capacity of a single production line for 1-methyl-1h-tetrazole-5-thiol is typically between 200 and 500 tons, with a gross profit margin of approximately 25% to 50%. The core upstream raw materials for 1-methyl-1h-tetrazole-5-thiol are sodium azide and methyl isothiocyanate. The azide process is a high-risk chemical reaction under key national regulation. Sodium azide is flammable, explosive, and highly toxic, thus safety qualifications and the stability of raw material supply constitute extremely high entry barriers. The midstream market exhibits a 'small-volume, highly concentrated' pattern, with production highly concentrated in China and the Asia-Pacific region. Individual production lines have limited capacity, requiring only a

small number of large-scale production lines to meet global market demand. Downstream, it is almost entirely used in the synthesis of cephalosporin antibiotics, serving as an irreplaceable core side chain for the production of mid-to-high-end cephalosporins such as cefoperazone, cefamandole, and cefmetazole. The rigid demand in the downstream pharmaceutical market provides methyl mercaptotetrazole with a stable profit margin.

This report studies the global 1-Methyl-1H-tetrazole-5-thiol production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for 1-Methyl-1H-tetrazole-5-thiol 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-Methyl-1H-tetrazole-5-thiol that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global 1-Methyl-1H-tetrazole-5-thiol total production and demand, 2021-2032, (Tons)

Global 1-Methyl-1H-tetrazole-5-thiol total production value, 2021-2032, (USD Million)

Global 1-Methyl-1H-tetrazole-5-thiol production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global 1-Methyl-1H-tetrazole-5-thiol consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: 1-Methyl-1H-tetrazole-5-thiol domestic production, consumption, key domestic manufacturers and share

Global 1-Methyl-1H-tetrazole-5-thiol production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global 1-Methyl-1H-tetrazole-5-thiol production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global 1-Methyl-1H-tetrazole-5-thiol production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global 1-Methyl-1H-tetrazole-5-thiol 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 Merck, TCI, Alfa-Aesar, Shandong IFT Science & Technology, Jincheng Pharma, Baihang, Hairui, 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-Methyl-1H-tetrazole-5-thiol 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-Methyl-1H-tetrazole-5-thiol Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global 1-Methyl-1H-tetrazole-5-thiol Market, Segmentation by Type:

Purity ? 99%

Purity ? 98%

Other

## Global 1-Methyl-1H-tetrazole-5-thiol Market, Segmentation by Synthesis Route:

Sodium Azide Pathway

Non-sodium Azide Pathway

## Global 1-Methyl-1H-tetrazole-5-thiol Market, Segmentation by Application:

Pharmaceutical Synthesis

Agriculture

Others

## Companies Profiled:

Merck

TCI

Alfa-Aesar

Shandong IFT Science & Technology

Jincheng Pharma

Baihang

Hairui

## Key Questions Answered:

1. How big is the global 1-Methyl-1H-tetrazole-5-thiol market?
2. What is the demand of the global 1-Methyl-1H-tetrazole-5-thiol market?
3. What is the year over year growth of the global 1-Methyl-1H-tetrazole-5-thiol market?

4. What is the production and production value of the global 1-Methyl-1H-tetrazole-5-thiol market?
5. Who are the key producers in the global 1-Methyl-1H-tetrazole-5-thiol market?
6. What are the growth factors driving the market demand?

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