

# Global 1-Methyl-1H-tetrazole-5-thiol Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global 1-Methyl-1H-tetrazole-5-thiol market size was valued at US\$ 25.93 million in 2025 and is forecast to a readjusted size of US\$ 36.30 million by 2032 with a CAGR of 4.9% during review period.

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 is a detailed and comprehensive analysis for global 1-Methyl-1H-tetrazole-5-thiol market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

### **Key Features:**

Global 1-Methyl-1H-tetrazole-5-thiol market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global 1-Methyl-1H-tetrazole-5-thiol market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global 1-Methyl-1H-tetrazole-5-thiol market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global 1-Methyl-1H-tetrazole-5-thiol market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 2021-2026

### **The Primary Objectives in This Report Are:**

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for 1-Methyl-1H-tetrazole-5-thiol

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global 1-Methyl-1H-tetrazole-5-thiol market based on the following parameters - company overview, sales quantity, revenue, 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.

## **Market Segmentation**

1-Methyl-1H-tetrazole-5-thiol market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

### Market segment by Type

Purity ? 99%

Purity ? 98%

Other

### Market segment by Synthesis Route

Sodium Azide Pathway

Non-sodium Azide Pathway

### Market segment by Application

Pharmaceutical Synthesis

Agriculture

Others

### Major players covered

Merck

TCI

Alfa-Aesar

Shandong IFT Science & Technology

Jincheng Pharma

Baihang

Hairui

### Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

### **The content of the study subjects, includes a total of 15 chapters:**

Chapter 1, to describe 1-Methyl-1H-tetrazole-5-thiol product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 1-Methyl-1H-tetrazole-5-thiol, with price,

sales quantity, revenue, and global market share of 1-Methyl-1H-tetrazole-5-thiol from 2021 to 2026.

Chapter 3, the 1-Methyl-1H-tetrazole-5-thiol competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the 1-Methyl-1H-tetrazole-5-thiol breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and 1-Methyl-1H-tetrazole-5-thiol market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of 1-Methyl-1H-tetrazole-5-thiol.

Chapter 14 and 15, to describe 1-Methyl-1H-tetrazole-5-thiol sales channel, distributors, customers, research findings and conclusion.

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