

Global 1,1,3,3-Tetramethylguanidine Hydrochloride Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global 1,1,3,3-Tetramethylguanidine Hydrochloride market size is expected to reach \$ 13.85 million by 2032, rising at a market growth of 6.5% CAGR during the forecast period (2026-2032).

Tetramethylguanidine Hydrochloride (CAS 1729-17-5, molecular formula C₅H₁₄CIN₃, molecular weight 151.64) is a fine chemical guanidine salt, available in both solid and solution forms. The product is primarily used in the production of tetramethylguanidine free base, deep eutectic solvents, catalytic salts, perovskite additives, and fine chemical synthesis, with an estimated overall gross margin of 48%.

Tetramethylguanidine hydrochloride is a small-volume, high-value, and dispersed specialty guanidine product. The global market size is estimated at USD 8.6 million in 2025 and USD 9.2 million in 2026. Its mainstream supply form is solid dry product at approximately 98% purity, and it has not yet developed a significant bulk supply-demand structure.

Demand growth is primarily driven by traditional fine synthesis applications such as tetramethylguanidine free base and catalytic salts, green solvent systems including deep eutectic solvents, and emerging materials research such as perovskite photovoltaic additives.

The market is expected to grow at a CAGR of approximately 6.7% from 2026 to 2032, supported by small-batch synthesis in pharmaceuticals and fine chemicals, customized ionic liquids, green solvents, and photovoltaic material additives. Due to small batch sizes, high purity and COA requirements, and long customer validation cycles, price elasticity is limited, and gross margins are expected to remain around 48%. However, if

perovskites or functional ionic liquids achieve large-scale applications, the market ceiling could increase further.

This report studies the global 1,1,3,3-Tetramethylguanidine Hydrochloride production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for 1,1,3,3-Tetramethylguanidine Hydrochloride 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 1,1,3,3-Tetramethylguanidine Hydrochloride that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global 1,1,3,3-Tetramethylguanidine Hydrochloride total production and demand, 2021-2032, (Kilotons)

Global 1,1,3,3-Tetramethylguanidine Hydrochloride total production value, 2021-2032, (USD Million)

Global 1,1,3,3-Tetramethylguanidine Hydrochloride production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global 1,1,3,3-Tetramethylguanidine Hydrochloride consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: 1,1,3,3-Tetramethylguanidine Hydrochloride domestic production, consumption, key domestic manufacturers and share

Global 1,1,3,3-Tetramethylguanidine Hydrochloride production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global 1,1,3,3-Tetramethylguanidine Hydrochloride production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global 1,1,3,3-Tetramethylguanidine Hydrochloride production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global 1,1,3,3-Tetramethylguanidine Hydrochloride 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 BLDpharm, Leyan, Fluorochem, ChemScene, Ambeed, Lanzhou Greenchem ILs, MREDA, JACS Chemical, ACME Chem, Wengjiang Reagent, 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 1,1,3,3-Tetramethylguanidine Hydrochloride market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) 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 1,1,3,3-Tetramethylguanidine Hydrochloride Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global 1,1,3,3-Tetramethylguanidine Hydrochloride Market, Segmentation by Type:

Solid

Solution

Global 1,1,3,3-Tetramethylguanidine Hydrochloride Market, Segmentation by Purity:

?98.0%

98.0–98.9%

99.0–99.4%

?99.5%

Others

Global 1,1,3,3-Tetramethylguanidine Hydrochloride Market, Segmentation by Sales Channel:

Direct Sales

Distribution

Global 1,1,3,3-Tetramethylguanidine Hydrochloride Market, Segmentation by Application:

TMG Free Base

Deep Eutectic Solvents

Perovskite Additives

Catalyst Salts

Fine Synthesis

Others

Companies Profiled:

BLDpharm

Leyan

Fluorochem

ChemScene

Ambeed

Lanzhou Greenchem ILs

MREDA

JACS Chemical

ACME Chem

Wengjiang Reagent

Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

- 1.1 1,1,3,3-Tetramethylguanidine Hydrochloride Introduction
- 1.2 World 1,1,3,3-Tetramethylguanidine Hydrochloride Supply & Forecast
 - 1.2.1 World 1,1,3,3-Tetramethylguanidine Hydrochloride Production Value (2021 & 2025 & 2032)
 - 1.2.2 World 1,1,3,3-Tetramethylguanidine Hydrochloride Production (2021-2032)
 - 1.2.3 World 1,1,3,3-Tetramethylguanidine Hydrochloride Pricing Trends (2021-2032)
- 1.3 World 1,1,3,3-Tetramethylguanidine Hydrochloride Production by Region (Based on Production Site)
 - 1.3.1 World 1,1,3,3-Tetramethylguanidine Hydrochloride Production Value by Region (2021-2032)
 - 1.3.2 World 1,1,3,3-Tetramethylguanidine Hydrochloride Production by Region (2021-2032)
 - 1.3.3 World 1,1,3,3-Tetramethylguanidine Hydrochloride Average Price by Region (2021-2032)
 - 1.3.4 North America 1,1,3,3-Tetramethylguanidine Hydrochloride Production (2021-2032)
 - 1.3.5 Europe 1,1,3,3-Tetramethylguanidine Hydrochloride Production (2021-2032)
 - 1.3.6 China 1,1,3,3-Tetramethylguanidine Hydrochloride Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 1,1,3,3-Tetramethylguanidine Hydrochloride Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 1,1,3,3-Tetramethylguanidine Hydrochloride Major Market Trends

2 DEMAND SUMMARY

- 2.1 World 1,1,3,3-Tetramethylguanidine Hydrochloride Demand (2021-2032)
- 2.2 World 1,1,3,3-Tetramethylguanidine Hydrochloride Consumption by Region
 - 2.2.1 World 1,1,3,3-Tetramethylguanidine Hydrochloride Consumption by Region (2021-2026)
 - 2.2.2 World 1,1,3,3-Tetramethylguanidine Hydrochloride Consumption Forecast by Region (2027-2032)
- 2.3 United States 1,1,3,3-Tetramethylguanidine Hydrochloride Consumption (2021-2032)
- 2.4 China 1,1,3,3-Tetramethylguanidine Hydrochloride Consumption (2021-2032)
- 2.5 Europe 1,1,3,3-Tetramethylguanidine Hydrochloride Consumption (2021-2032)

- 2.6 Japan 1,1,3,3-Tetramethylguanidine Hydrochloride Consumption (2021-2032)
- 2.7 South Korea 1,1,3,3-Tetramethylguanidine Hydrochloride Consumption (2021-2032)
- 2.8 ASEAN 1,1,3,3-Tetramethylguanidine Hydrochloride Consumption (2021-2032)
- 2.9 India 1,1,3,3-Tetramethylguanidine Hydrochloride Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World 1,1,3,3-Tetramethylguanidine Hydrochloride Production Value by Manufacturer (2021-2026)
- 3.2 World 1,1,3,3-Tetramethylguanidine Hydrochloride Production by Manufacturer (2021-2026)
- 3.3 World 1,1,3,3-Tetramethylguanidine Hydrochloride Average Price by Manufacturer (2021-2026)
- 3.4 1,1,3,3-Tetramethylguanidine Hydrochloride Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global 1,1,3,3-Tetramethylguanidine Hydrochloride Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for 1,1,3,3-Tetramethylguanidine Hydrochloride in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for 1,1,3,3-Tetramethylguanidine Hydrochloride in 2025
- 3.6 1,1,3,3-Tetramethylguanidine Hydrochloride Market: Overall Company Footprint Analysis
 - 3.6.1 1,1,3,3-Tetramethylguanidine Hydrochloride Market: Region Footprint
 - 3.6.2 1,1,3,3-Tetramethylguanidine Hydrochloride Market: Company Product Type Footprint
 - 3.6.3 1,1,3,3-Tetramethylguanidine Hydrochloride 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: 1,1,3,3-Tetramethylguanidine Hydrochloride Production Value Comparison

4.1.1 United States VS China: 1,1,3,3-Tetramethylguanidine Hydrochloride Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: 1,1,3,3-Tetramethylguanidine Hydrochloride Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: 1,1,3,3-Tetramethylguanidine Hydrochloride Production Comparison

4.2.1 United States VS China: 1,1,3,3-Tetramethylguanidine Hydrochloride Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: 1,1,3,3-Tetramethylguanidine Hydrochloride Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: 1,1,3,3-Tetramethylguanidine Hydrochloride Consumption Comparison

4.3.1 United States VS China: 1,1,3,3-Tetramethylguanidine Hydrochloride Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: 1,1,3,3-Tetramethylguanidine Hydrochloride Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based 1,1,3,3-Tetramethylguanidine Hydrochloride Manufacturers and Market Share, 2021-2026

4.4.1 United States Based 1,1,3,3-Tetramethylguanidine Hydrochloride Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers 1,1,3,3-Tetramethylguanidine Hydrochloride Production Value (2021-2026)

4.4.3 United States Based Manufacturers 1,1,3,3-Tetramethylguanidine Hydrochloride Production (2021-2026)

4.5 China Based 1,1,3,3-Tetramethylguanidine Hydrochloride Manufacturers and Market Share

4.5.1 China Based 1,1,3,3-Tetramethylguanidine Hydrochloride Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers 1,1,3,3-Tetramethylguanidine Hydrochloride Production Value (2021-2026)

4.5.3 China Based Manufacturers 1,1,3,3-Tetramethylguanidine Hydrochloride Production (2021-2026)

4.6 Rest of World Based 1,1,3,3-Tetramethylguanidine Hydrochloride Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based 1,1,3,3-Tetramethylguanidine Hydrochloride Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers 1,1,3,3-Tetramethylguanidine Hydrochloride Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers 1,1,3,3-Tetramethylguanidine Hydrochloride

Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World 1,1,3,3-Tetramethylguanidine Hydrochloride Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Solid

5.2.2 Solution

5.3 Market Segment by Type

5.3.1 World 1,1,3,3-Tetramethylguanidine Hydrochloride Production by Type (2021-2032)

5.3.2 World 1,1,3,3-Tetramethylguanidine Hydrochloride Production Value by Type (2021-2032)

5.3.3 World 1,1,3,3-Tetramethylguanidine Hydrochloride Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY PURITY

6.1 World 1,1,3,3-Tetramethylguanidine Hydrochloride Market Size Overview by Purity: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Purity

6.2.1 ?98.0%

6.2.2 98.0–98.9%

6.2.3 99.0–99.4%

6.2.4 ?99.5%

6.2.5 Others

6.3 Market Segment by Purity

6.3.1 World 1,1,3,3-Tetramethylguanidine Hydrochloride Production by Purity (2021-2032)

6.3.2 World 1,1,3,3-Tetramethylguanidine Hydrochloride Production Value by Purity (2021-2032)

6.3.3 World 1,1,3,3-Tetramethylguanidine Hydrochloride Average Price by Purity (2021-2032)

7 MARKET ANALYSIS BY SALES CHANNEL

7.1 World 1,1,3,3-Tetramethylguanidine Hydrochloride Market Size Overview by Sales Channel: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Sales Channel

7.2.1 Direct Sales

7.2.2 Distribution

7.3 Market Segment by Sales Channel

7.3.1 World 1,1,3,3-Tetramethylguanidine Hydrochloride Production by Sales Channel (2021-2032)

7.3.2 World 1,1,3,3-Tetramethylguanidine Hydrochloride Production Value by Sales Channel (2021-2032)

7.3.3 World 1,1,3,3-Tetramethylguanidine Hydrochloride Average Price by Sales Channel (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World 1,1,3,3-Tetramethylguanidine Hydrochloride Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 TMG Free Base

8.2.2 Deep Eutectic Solvents

8.2.3 Perovskite Additives

8.2.4 Catalyst Salts

8.2.5 Fine Synthesis

8.2.6 Others

8.3 Market Segment by Application

8.3.1 World 1,1,3,3-Tetramethylguanidine Hydrochloride Production by Application (2021-2032)

8.3.2 World 1,1,3,3-Tetramethylguanidine Hydrochloride Production Value by Application (2021-2032)

8.3.3 World 1,1,3,3-Tetramethylguanidine Hydrochloride Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 BLDpharm

9.1.1 BLDpharm Details

9.1.2 BLDpharm Major Business

9.1.3 BLDpharm 1,1,3,3-Tetramethylguanidine Hydrochloride Product and Services

9.1.4 BLDpharm 1,1,3,3-Tetramethylguanidine Hydrochloride Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 BLDpharm Recent Developments/Updates

- 9.1.6 BLDpharm Competitive Strengths & Weaknesses
- 9.2 Leyan
 - 9.2.1 Leyan Details
 - 9.2.2 Leyan Major Business
 - 9.2.3 Leyan 1,1,3,3-Tetramethylguanidine Hydrochloride Product and Services
 - 9.2.4 Leyan 1,1,3,3-Tetramethylguanidine Hydrochloride Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.2.5 Leyan Recent Developments/Updates
 - 9.2.6 Leyan Competitive Strengths & Weaknesses
- 9.3 Fluorochem
 - 9.3.1 Fluorochem Details
 - 9.3.2 Fluorochem Major Business
 - 9.3.3 Fluorochem 1,1,3,3-Tetramethylguanidine Hydrochloride Product and Services
 - 9.3.4 Fluorochem 1,1,3,3-Tetramethylguanidine Hydrochloride Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.3.5 Fluorochem Recent Developments/Updates
 - 9.3.6 Fluorochem Competitive Strengths & Weaknesses
- 9.4 ChemScene
 - 9.4.1 ChemScene Details
 - 9.4.2 ChemScene Major Business
 - 9.4.3 ChemScene 1,1,3,3-Tetramethylguanidine Hydrochloride Product and Services
 - 9.4.4 ChemScene 1,1,3,3-Tetramethylguanidine Hydrochloride Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.4.5 ChemScene Recent Developments/Updates
 - 9.4.6 ChemScene Competitive Strengths & Weaknesses
- 9.5 Ambeed
 - 9.5.1 Ambeed Details
 - 9.5.2 Ambeed Major Business
 - 9.5.3 Ambeed 1,1,3,3-Tetramethylguanidine Hydrochloride Product and Services
 - 9.5.4 Ambeed 1,1,3,3-Tetramethylguanidine Hydrochloride Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 Ambeed Recent Developments/Updates
 - 9.5.6 Ambeed Competitive Strengths & Weaknesses
- 9.6 Lanzhou Greenchem ILs
 - 9.6.1 Lanzhou Greenchem ILs Details
 - 9.6.2 Lanzhou Greenchem ILs Major Business
 - 9.6.3 Lanzhou Greenchem ILs 1,1,3,3-Tetramethylguanidine Hydrochloride Product and Services
 - 9.6.4 Lanzhou Greenchem ILs 1,1,3,3-Tetramethylguanidine Hydrochloride

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

9.6.5 Lanzhou Greenchem ILs Recent Developments/Updates

9.6.6 Lanzhou Greenchem ILs Competitive Strengths & Weaknesses

9.7 MREDA

9.7.1 MREDA Details

9.7.2 MREDA Major Business

9.7.3 MREDA 1,1,3,3-Tetramethylguanidine Hydrochloride Product and Services

9.7.4 MREDA 1,1,3,3-Tetramethylguanidine Hydrochloride Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 MREDA Recent Developments/Updates

9.7.6 MREDA Competitive Strengths & Weaknesses

9.8 JACS Chemical

9.8.1 JACS Chemical Details

9.8.2 JACS Chemical Major Business

9.8.3 JACS Chemical 1,1,3,3-Tetramethylguanidine Hydrochloride Product and Services

9.8.4 JACS Chemical 1,1,3,3-Tetramethylguanidine Hydrochloride Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 JACS Chemical Recent Developments/Updates

9.8.6 JACS Chemical Competitive Strengths & Weaknesses

9.9 ACME Chem

9.9.1 ACME Chem Details

9.9.2 ACME Chem Major Business

9.9.3 ACME Chem 1,1,3,3-Tetramethylguanidine Hydrochloride Product and Services

9.9.4 ACME Chem 1,1,3,3-Tetramethylguanidine Hydrochloride Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 ACME Chem Recent Developments/Updates

9.9.6 ACME Chem Competitive Strengths & Weaknesses

9.10 Wengjiang Reagent

9.10.1 Wengjiang Reagent Details

9.10.2 Wengjiang Reagent Major Business

9.10.3 Wengjiang Reagent 1,1,3,3-Tetramethylguanidine Hydrochloride Product and Services

9.10.4 Wengjiang Reagent 1,1,3,3-Tetramethylguanidine Hydrochloride Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 Wengjiang Reagent Recent Developments/Updates

9.10.6 Wengjiang Reagent Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 1,1,3,3-Tetramethylguanidine Hydrochloride Industry Chain
- 10.2 1,1,3,3-Tetramethylguanidine Hydrochloride Upstream Analysis
 - 10.2.1 1,1,3,3-Tetramethylguanidine Hydrochloride Core Raw Materials
 - 10.2.2 Main Manufacturers of 1,1,3,3-Tetramethylguanidine Hydrochloride Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 1,1,3,3-Tetramethylguanidine Hydrochloride Production Mode
- 10.6 1,1,3,3-Tetramethylguanidine Hydrochloride Procurement Model
- 10.7 1,1,3,3-Tetramethylguanidine Hydrochloride Industry Sales Model and Sales Channels
 - 10.7.1 1,1,3,3-Tetramethylguanidine Hydrochloride Sales Model
 - 10.7.2 1,1,3,3-Tetramethylguanidine Hydrochloride 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 1,1,3,3-Tetramethylguanidine Hydrochloride Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World 1,1,3,3-Tetramethylguanidine Hydrochloride Production Value by Region (2021-2026) & (USD Million)

Table 3. World 1,1,3,3-Tetramethylguanidine Hydrochloride Production Value by Region (2027-2032) & (USD Million)

Table 4. World 1,1,3,3-Tetramethylguanidine Hydrochloride Production Value Market Share by Region (2021-2026)

Table 5. World 1,1,3,3-Tetramethylguanidine Hydrochloride Production Value Market Share by Region (2027-2032)

Table 6. World 1,1,3,3-Tetramethylguanidine Hydrochloride Production by Region (2021-2026) & (Kilotons)

Table 7. World 1,1,3,3-Tetramethylguanidine Hydrochloride Production by Region (2027-2032) & (Kilotons)

Table 8. World 1,1,3,3-Tetramethylguanidine Hydrochloride Production Market Share by Region (2021-2026)

Table 9. World 1,1,3,3-Tetramethylguanidine Hydrochloride Production Market Share by Region (2027-2032)

Table 10. World 1,1,3,3-Tetramethylguanidine Hydrochloride Average Price by Region (2021-2026) & (US\$/Ton)

Table 11. World 1,1,3,3-Tetramethylguanidine Hydrochloride Average Price by Region (2027-2032) & (US\$/Ton)

Table 12. 1,1,3,3-Tetramethylguanidine Hydrochloride Major Market Trends

Table 13. World 1,1,3,3-Tetramethylguanidine Hydrochloride Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Kilotons)

Table 14. World 1,1,3,3-Tetramethylguanidine Hydrochloride Consumption by Region (2021-2026) & (Kilotons)

Table 15. World 1,1,3,3-Tetramethylguanidine Hydrochloride Consumption Forecast by Region (2027-2032) & (Kilotons)

Table 16. World 1,1,3,3-Tetramethylguanidine Hydrochloride Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key 1,1,3,3-Tetramethylguanidine Hydrochloride Producers in 2025

Table 18. World 1,1,3,3-Tetramethylguanidine Hydrochloride Production by Manufacturer (2021-2026) & (Kilotons)

Table 19. Production Market Share of Key 1,1,3,3-Tetramethylguanidine Hydrochloride Producers in 2025

Table 20. World 1,1,3,3-Tetramethylguanidine Hydrochloride Average Price by Manufacturer (2021-2026) & (US\$/Ton)

Table 21. Global 1,1,3,3-Tetramethylguanidine Hydrochloride Company Evaluation Quadrant

Table 22. World 1,1,3,3-Tetramethylguanidine Hydrochloride Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and 1,1,3,3-Tetramethylguanidine Hydrochloride Production Site of Key Manufacturer

Table 24. 1,1,3,3-Tetramethylguanidine Hydrochloride Market: Company Product Type Footprint

Table 25. 1,1,3,3-Tetramethylguanidine Hydrochloride Market: Company Product Application Footprint

Table 26. 1,1,3,3-Tetramethylguanidine Hydrochloride Competitive Factors

Table 27. 1,1,3,3-Tetramethylguanidine Hydrochloride New Entrant and Capacity Expansion Plans

Table 28. 1,1,3,3-Tetramethylguanidine Hydrochloride Mergers & Acquisitions Activity

Table 29. United States VS China 1,1,3,3-Tetramethylguanidine Hydrochloride Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China 1,1,3,3-Tetramethylguanidine Hydrochloride Production Comparison, (2021 & 2025 & 2032) & (Kilotons)

Table 31. United States VS China 1,1,3,3-Tetramethylguanidine Hydrochloride Consumption Comparison, (2021 & 2025 & 2032) & (Kilotons)

Table 32. United States Based 1,1,3,3-Tetramethylguanidine Hydrochloride Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers 1,1,3,3-Tetramethylguanidine Hydrochloride Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers 1,1,3,3-Tetramethylguanidine Hydrochloride Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers 1,1,3,3-Tetramethylguanidine Hydrochloride Production (2021-2026) & (Kilotons)

Table 36. United States Based Manufacturers 1,1,3,3-Tetramethylguanidine Hydrochloride Production Market Share (2021-2026)

Table 37. China Based 1,1,3,3-Tetramethylguanidine Hydrochloride Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers 1,1,3,3-Tetramethylguanidine Hydrochloride Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers 1,1,3,3-Tetramethylguanidine Hydrochloride

Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers 1,1,3,3-Tetramethylguanidine Hydrochloride Production, (2021-2026) & (Kilotons)

Table 41. China Based Manufacturers 1,1,3,3-Tetramethylguanidine Hydrochloride Production Market Share (2021-2026)

Table 42. Rest of World Based 1,1,3,3-Tetramethylguanidine Hydrochloride Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers 1,1,3,3-Tetramethylguanidine Hydrochloride Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers 1,1,3,3-Tetramethylguanidine Hydrochloride Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers 1,1,3,3-Tetramethylguanidine Hydrochloride Production, (2021-2026) & (Kilotons)

Table 46. Rest of World Based Manufacturers 1,1,3,3-Tetramethylguanidine Hydrochloride Production Market Share (2021-2026)

Table 47. World 1,1,3,3-Tetramethylguanidine Hydrochloride Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World 1,1,3,3-Tetramethylguanidine Hydrochloride Production by Type (2021-2026) & (Kilotons)

Table 49. World 1,1,3,3-Tetramethylguanidine Hydrochloride Production by Type (2027-2032) & (Kilotons)

Table 50. World 1,1,3,3-Tetramethylguanidine Hydrochloride Production Value by Type (2021-2026) & (USD Million)

Table 51. World 1,1,3,3-Tetramethylguanidine Hydrochloride Production Value by Type (2027-2032) & (USD Million)

Table 52. World 1,1,3,3-Tetramethylguanidine Hydrochloride Average Price by Type (2021-2026) & (US\$/Ton)

Table 53. World 1,1,3,3-Tetramethylguanidine Hydrochloride Average Price by Type (2027-2032) & (US\$/Ton)

Table 54. World 1,1,3,3-Tetramethylguanidine Hydrochloride Production Value by Purity, (USD Million), 2021 & 2025 & 2032

Table 55. World 1,1,3,3-Tetramethylguanidine Hydrochloride Production by Purity (2021-2026) & (Kilotons)

Table 56. World 1,1,3,3-Tetramethylguanidine Hydrochloride Production by Purity (2027-2032) & (Kilotons)

Table 57. World 1,1,3,3-Tetramethylguanidine Hydrochloride Production Value by Purity (2021-2026) & (USD Million)

Table 58. World 1,1,3,3-Tetramethylguanidine Hydrochloride Production Value by Purity (2027-2032) & (USD Million)

Table 59. World 1,1,3,3-Tetramethylguanidine Hydrochloride Average Price by Purity (2021-2026) & (US\$/Ton)

Table 60. World 1,1,3,3-Tetramethylguanidine Hydrochloride Average Price by Purity (2027-2032) & (US\$/Ton)

Table 61. World 1,1,3,3-Tetramethylguanidine Hydrochloride Production Value by Sales Channel, (USD Million), 2021 & 2025 & 2032

Table 62. World 1,1,3,3-Tetramethylguanidine Hydrochloride Production by Sales Channel (2021-2026) & (Kilotons)

Table 63. World 1,1,3,3-Tetramethylguanidine Hydrochloride Production by Sales Channel (2027-2032) & (Kilotons)

Table 64. World 1,1,3,3-Tetramethylguanidine Hydrochloride Production Value by Sales Channel (2021-2026) & (USD Million)

Table 65. World 1,1,3,3-Tetramethylguanidine Hydrochloride Production Value by Sales Channel (2027-2032) & (USD Million)

Table 66. World 1,1,3,3-Tetramethylguanidine Hydrochloride Average Price by Sales Channel (2021-2026) & (US\$/Ton)

Table 67. World 1,1,3,3-Tetramethylguanidine Hydrochloride Average Price by Sales Channel (2027-2032) & (US\$/Ton)

Table 68. World 1,1,3,3-Tetramethylguanidine Hydrochloride Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World 1,1,3,3-Tetramethylguanidine Hydrochloride Production by Application (2021-2026) & (Kilotons)

Table 70. World 1,1,3,3-Tetramethylguanidine Hydrochloride Production by Application (2027-2032) & (Kilotons)

Table 71. World 1,1,3,3-Tetramethylguanidine Hydrochloride Production Value by Application (2021-2026) & (USD Million)

Table 72. World 1,1,3,3-Tetramethylguanidine Hydrochloride Production Value by Application (2027-2032) & (USD Million)

Table 73. World 1,1,3,3-Tetramethylguanidine Hydrochloride Average Price by Application (2021-2026) & (US\$/Ton)

Table 74. World 1,1,3,3-Tetramethylguanidine Hydrochloride Average Price by Application (2027-2032) & (US\$/Ton)

Table 75. BLDpharm Basic Information, Manufacturing Base and Competitors

Table 76. BLDpharm Major Business

Table 77. BLDpharm 1,1,3,3-Tetramethylguanidine Hydrochloride Product and Services

Table 78. BLDpharm 1,1,3,3-Tetramethylguanidine Hydrochloride Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. BLDpharm Recent Developments/Updates

- Table 80. BLDpharm Competitive Strengths & Weaknesses
- Table 81. Leyan Basic Information, Manufacturing Base and Competitors
- Table 82. Leyan Major Business
- Table 83. Leyan 1,1,3,3-Tetramethylguanidine Hydrochloride Product and Services
- Table 84. Leyan 1,1,3,3-Tetramethylguanidine Hydrochloride Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 85. Leyan Recent Developments/Updates
- Table 86. Leyan Competitive Strengths & Weaknesses
- Table 87. Fluorochem Basic Information, Manufacturing Base and Competitors
- Table 88. Fluorochem Major Business
- Table 89. Fluorochem 1,1,3,3-Tetramethylguanidine Hydrochloride Product and Services
- Table 90. Fluorochem 1,1,3,3-Tetramethylguanidine Hydrochloride Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 91. Fluorochem Recent Developments/Updates
- Table 92. Fluorochem Competitive Strengths & Weaknesses
- Table 93. ChemScene Basic Information, Manufacturing Base and Competitors
- Table 94. ChemScene Major Business
- Table 95. ChemScene 1,1,3,3-Tetramethylguanidine Hydrochloride Product and Services
- Table 96. ChemScene 1,1,3,3-Tetramethylguanidine Hydrochloride Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 97. ChemScene Recent Developments/Updates
- Table 98. ChemScene Competitive Strengths & Weaknesses
- Table 99. Ambeed Basic Information, Manufacturing Base and Competitors
- Table 100. Ambeed Major Business
- Table 101. Ambeed 1,1,3,3-Tetramethylguanidine Hydrochloride Product and Services
- Table 102. Ambeed 1,1,3,3-Tetramethylguanidine Hydrochloride Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 103. Ambeed Recent Developments/Updates
- Table 104. Ambeed Competitive Strengths & Weaknesses
- Table 105. Lanzhou Greenchem ILs Basic Information, Manufacturing Base and Competitors
- Table 106. Lanzhou Greenchem ILs Major Business
- Table 107. Lanzhou Greenchem ILs 1,1,3,3-Tetramethylguanidine Hydrochloride

Product and Services

Table 108. Lanzhou Greenchem ILs 1,1,3,3-Tetramethylguanidine Hydrochloride Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Lanzhou Greenchem ILs Recent Developments/Updates

Table 110. Lanzhou Greenchem ILs Competitive Strengths & Weaknesses

Table 111. MREDA Basic Information, Manufacturing Base and Competitors

Table 112. MREDA Major Business

Table 113. MREDA 1,1,3,3-Tetramethylguanidine Hydrochloride Product and Services

Table 114. MREDA 1,1,3,3-Tetramethylguanidine Hydrochloride Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. MREDA Recent Developments/Updates

Table 116. MREDA Competitive Strengths & Weaknesses

Table 117. JACS Chemical Basic Information, Manufacturing Base and Competitors

Table 118. JACS Chemical Major Business

Table 119. JACS Chemical 1,1,3,3-Tetramethylguanidine Hydrochloride Product and Services

Table 120. JACS Chemical 1,1,3,3-Tetramethylguanidine Hydrochloride Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. JACS Chemical Recent Developments/Updates

Table 122. JACS Chemical Competitive Strengths & Weaknesses

Table 123. ACME Chem Basic Information, Manufacturing Base and Competitors

Table 124. ACME Chem Major Business

Table 125. ACME Chem 1,1,3,3-Tetramethylguanidine Hydrochloride Product and Services

Table 126. ACME Chem 1,1,3,3-Tetramethylguanidine Hydrochloride Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. ACME Chem Recent Developments/Updates

Table 128. ACME Chem Competitive Strengths & Weaknesses

Table 129. Wengjiang Reagent Basic Information, Manufacturing Base and Competitors

Table 130. Wengjiang Reagent Major Business

Table 131. Wengjiang Reagent 1,1,3,3-Tetramethylguanidine Hydrochloride Product and Services

Table 132. Wengjiang Reagent 1,1,3,3-Tetramethylguanidine Hydrochloride Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Wengjiang Reagent Recent Developments/Updates

Table 134. Wengjiang Reagent Competitive Strengths & Weaknesses

Table 135. Global Key Players of 1,1,3,3-Tetramethylguanidine Hydrochloride Upstream (Raw Materials)

Table 136. Global 1,1,3,3-Tetramethylguanidine Hydrochloride Typical Customers

Table 137. 1,1,3,3-Tetramethylguanidine Hydrochloride Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. 1,1,3,3-Tetramethylguanidine Hydrochloride Picture

Figure 2. World 1,1,3,3-Tetramethylguanidine Hydrochloride Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World 1,1,3,3-Tetramethylguanidine Hydrochloride Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World 1,1,3,3-Tetramethylguanidine Hydrochloride Production (2021-2032) & (Kilotons)

Figure 5. World 1,1,3,3-Tetramethylguanidine Hydrochloride Average Price (2021-2032) & (US\$/Ton)

Figure 6. World 1,1,3,3-Tetramethylguanidine Hydrochloride Production Value Market Share by Region (2021-2032)

Figure 7. World 1,1,3,3-Tetramethylguanidine Hydrochloride Production Market Share by Region (2021-2032)

Figure 8. North America 1,1,3,3-Tetramethylguanidine Hydrochloride Production (2021-2032) & (Kilotons)

Figure 9. Europe 1,1,3,3-Tetramethylguanidine Hydrochloride Production (2021-2032) & (Kilotons)

Figure 10. China 1,1,3,3-Tetramethylguanidine Hydrochloride Production (2021-2032) & (Kilotons)

Figure 11. 1,1,3,3-Tetramethylguanidine Hydrochloride Market Drivers

Figure 12. Factors Affecting Demand

Figure 13. World 1,1,3,3-Tetramethylguanidine Hydrochloride Consumption (2021-2032) & (Kilotons)

Figure 14. World 1,1,3,3-Tetramethylguanidine Hydrochloride Consumption Market Share by Region (2021-2032)

Figure 15. United States 1,1,3,3-Tetramethylguanidine Hydrochloride Consumption (2021-2032) & (Kilotons)

Figure 16. China 1,1,3,3-Tetramethylguanidine Hydrochloride Consumption (2021-2032) & (Kilotons)

Figure 17. Europe 1,1,3,3-Tetramethylguanidine Hydrochloride Consumption (2021-2032) & (Kilotons)

Figure 18. Japan 1,1,3,3-Tetramethylguanidine Hydrochloride Consumption (2021-2032) & (Kilotons)

Figure 19. South Korea 1,1,3,3-Tetramethylguanidine Hydrochloride Consumption (2021-2032) & (Kilotons)

Figure 20. ASEAN 1,1,3,3-Tetramethylguanidine Hydrochloride Consumption (2021-2032) & (Kilotons)

Figure 21. India 1,1,3,3-Tetramethylguanidine Hydrochloride Consumption (2021-2032) & (Kilotons)

Figure 22. Producer Shipments of 1,1,3,3-Tetramethylguanidine Hydrochloride by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 23. Global Four-firm Concentration Ratios (CR4) for 1,1,3,3-Tetramethylguanidine Hydrochloride Markets in 2025

Figure 24. Global Four-firm Concentration Ratios (CR8) for 1,1,3,3-Tetramethylguanidine Hydrochloride Markets in 2025

Figure 25. United States VS China: 1,1,3,3-Tetramethylguanidine Hydrochloride Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 26. United States VS China: 1,1,3,3-Tetramethylguanidine Hydrochloride Production Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: 1,1,3,3-Tetramethylguanidine Hydrochloride Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States Based Manufacturers 1,1,3,3-Tetramethylguanidine Hydrochloride Production Market Share 2025

Figure 29. China Based Manufacturers 1,1,3,3-Tetramethylguanidine Hydrochloride Production Market Share 2025

Figure 30. Rest of World Based Manufacturers 1,1,3,3-Tetramethylguanidine Hydrochloride Production Market Share 2025

Figure 31. World 1,1,3,3-Tetramethylguanidine Hydrochloride Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 32. World 1,1,3,3-Tetramethylguanidine Hydrochloride Production Value Market Share by Type in 2025

Figure 33. Solid

Figure 34. Solution

Figure 35. World 1,1,3,3-Tetramethylguanidine Hydrochloride Production Market Share by Type (2021-2032)

Figure 36. World 1,1,3,3-Tetramethylguanidine Hydrochloride Production Value Market Share by Type (2021-2032)

Figure 37. World 1,1,3,3-Tetramethylguanidine Hydrochloride Average Price by Type (2021-2032) & (US\$/Ton)

Figure 38. World 1,1,3,3-Tetramethylguanidine Hydrochloride Production Value by Purity, (USD Million), 2021 & 2025 & 2032

Figure 39. World 1,1,3,3-Tetramethylguanidine Hydrochloride Production Value Market Share by Purity in 2025

Figure 40. 98.0%

Figure 41. 98.0–98.9%

Figure 42. 99.0–99.4%

Figure 43. ?99.5%

Figure 44. Others

Figure 45. World 1,1,3,3-Tetramethylguanidine Hydrochloride Production Market Share by Purity (2021-2032)

Figure 46. World 1,1,3,3-Tetramethylguanidine Hydrochloride Production Value Market Share by Purity (2021-2032)

Figure 47. World 1,1,3,3-Tetramethylguanidine Hydrochloride Average Price by Purity (2021-2032) & (US\$/Ton)

Figure 48. World 1,1,3,3-Tetramethylguanidine Hydrochloride Production Value by Sales Channel, (USD Million), 2021 & 2025 & 2032

Figure 49. World 1,1,3,3-Tetramethylguanidine Hydrochloride Production Value Market Share by Sales Channel in 2025

Figure 50. Direct Sales

Figure 51. Distribution

Figure 52. World 1,1,3,3-Tetramethylguanidine Hydrochloride Production Market Share by Sales Channel (2021-2032)

Figure 53. World 1,1,3,3-Tetramethylguanidine Hydrochloride Production Value Market Share by Sales Channel (2021-2032)

Figure 54. World 1,1,3,3-Tetramethylguanidine Hydrochloride Average Price by Sales Channel (2021-2032) & (US\$/Ton)

Figure 55. World 1,1,3,3-Tetramethylguanidine Hydrochloride Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 56. World 1,1,3,3-Tetramethylguanidine Hydrochloride Production Value Market Share by Application in 2025

Figure 57. TMG Free Base

Figure 58. Deep Eutectic Solvents

Figure 59. Perovskite Additives

Figure 60. Catalyst Salts

Figure 61. Fine Synthesis

Figure 62. Others

Figure 63. World 1,1,3,3-Tetramethylguanidine Hydrochloride Production Market Share by Application (2021-2032)

Figure 64. World 1,1,3,3-Tetramethylguanidine Hydrochloride Production Value Market Share by Application (2021-2032)

Figure 65. World 1,1,3,3-Tetramethylguanidine Hydrochloride Average Price by Application (2021-2032) & (US\$/Ton)

Figure 66. 1,1,3,3-Tetramethylguanidine Hydrochloride Industry Chain

Figure 67. 1,1,3,3-Tetramethylguanidine Hydrochloride Procurement Model

Figure 68. 1,1,3,3-Tetramethylguanidine Hydrochloride Sales Model

Figure 69. 1,1,3,3-Tetramethylguanidine Hydrochloride Sales Channels, Direct Sales, and Distribution

Figure 70. Methodology

Figure 71. Research Process and Data Source

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