

Global Trifluoromethyl Iodide Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Trifluoromethyl Iodide market size is expected to reach \$ 115 million by 2032, rising at a market growth of 5.9% CAGR during the forecast period (2026-2032).

Trifluoroiodomethane is also known as trifluoromethyl iodide, Iodotrifluoromethane, etc., with a molecular formula of CF_3I and a molecular weight of 195.91.

Trifluoroiodomethane is a colorless and odorless gas that is non-toxic, flame retardant, oil soluble, and has good material compatibility. It is one of the alternatives to traditional fluorocarbons, with high fire extinguishing efficiency, good safety performance, and high economic benefits. Trifluoroiodomethane, as a semiconductor etching gas, has higher selectivity and high aspect ratio during etching compared to the same etching gases CF_4 and C_4F_6 .

Trifluoroiodomethane can be used as a semiconductor etching gas, insulation and arc extinguishing gas for electrical equipment, fire extinguishing agent, refrigerant, etc. In addition, trifluoroiodomethane can also interact with organometallic reagents and is an important fluorinated intermediate for introducing fluoromethyl groups in organic synthesis. It can be widely used in fields such as organic synthesis, biochemistry, pesticides, pharmaceuticals, surfactants, and dyes.

The global market for Trifluoromethyl Iodide (CF_3I) is primarily driven by its diverse applications across industries such as fire suppression, refrigeration, semiconductor manufacturing, and fluorinated intermediates. Among these, its role as an environmentally friendly fire extinguishing agent is particularly prominent, accounting for a significant share of the demand. Additionally, CF_3I is increasingly being adopted in the semiconductor sector due to its high selectivity and efficiency in etching processes, especially as the demand for advanced chips rises. However, market growth is

constrained by production challenges and high costs, along with regulatory scrutiny related to environmental impacts.

The market for CF3I is expected to witness steady growth driven by advancements in semiconductor technology and the rising need for eco-friendly refrigerants and fire suppressants. Innovations in cost-effective synthesis methods and enhanced production efficiency will likely reduce manufacturing costs, broadening its adoption. Furthermore, as sustainability becomes a key focus globally, CF3I's low global warming potential (GWP) positions it as a preferred alternative to traditional fluorocarbons. Emerging applications in organic synthesis and biotechnology may also create additional growth opportunities in niche markets.

This report studies the global Trifluoromethyl Iodide production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Trifluoromethyl Iodide 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 Trifluoromethyl Iodide that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Trifluoromethyl Iodide total production and demand, 2021-2032, (Tons)

Global Trifluoromethyl Iodide total production value, 2021-2032, (USD Million)

Global Trifluoromethyl Iodide production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Trifluoromethyl Iodide consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Trifluoromethyl Iodide domestic production, consumption, key domestic manufacturers and share

Global Trifluoromethyl Iodide production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Trifluoromethyl Iodide production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Trifluoromethyl Iodide production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Trifluoromethyl Iodide 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 Iofina, Ajay-SQM Group, Tosoh Finechem, Beijing Yuji Science & Technology, Shandong Zhongshan Photoelectric Materials, Yangzhou Model Eletronic Materials, Suzhou Chemwells Advanced Materials, 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 Trifluoromethyl Iodide market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/kg) 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 Trifluoromethyl Iodide Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Trifluoromethyl Iodide Market, Segmentation by Type:

Purity?99%

Purity?99.9%

Purity?99.99%

Others

Global Trifluoromethyl Iodide Market, Segmentation by Application:

Fire Extinguishing Agent

Refrigerant

Foaming Agent

Fluorine-Containing Intermediate

Semiconductor Etching

Others

Companies Profiled:

Iofina

Ajay-SQM Group

Tosoh Finechem

Beijing Yuji Science & Technology

Shandong Zhongshan Photoelectric Materials

Yangzhou Model Electronic Materials

Suzhou Chemwells Advanced Materials

Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

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

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Trifluoromethyl Iodide Production Value by Manufacturer (2021-2026)

- 3.2 World Trifluoromethyl Iodide Production by Manufacturer (2021-2026)
- 3.3 World Trifluoromethyl Iodide Average Price by Manufacturer (2021-2026)
- 3.4 Trifluoromethyl Iodide Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Trifluoromethyl Iodide Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Trifluoromethyl Iodide in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Trifluoromethyl Iodide in 2025
- 3.6 Trifluoromethyl Iodide Market: Overall Company Footprint Analysis
 - 3.6.1 Trifluoromethyl Iodide Market: Region Footprint
 - 3.6.2 Trifluoromethyl Iodide Market: Company Product Type Footprint
 - 3.6.3 Trifluoromethyl Iodide 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: Trifluoromethyl Iodide Production Value Comparison
 - 4.1.1 United States VS China: Trifluoromethyl Iodide Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Trifluoromethyl Iodide Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Trifluoromethyl Iodide Production Comparison
 - 4.2.1 United States VS China: Trifluoromethyl Iodide Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Trifluoromethyl Iodide Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Trifluoromethyl Iodide Consumption Comparison
 - 4.3.1 United States VS China: Trifluoromethyl Iodide Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Trifluoromethyl Iodide Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Trifluoromethyl Iodide Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based Trifluoromethyl Iodide Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Trifluoromethyl Iodide Production Value (2021-2026)

4.4.3 United States Based Manufacturers Trifluoromethyl Iodide Production (2021-2026)

4.5 China Based Trifluoromethyl Iodide Manufacturers and Market Share

4.5.1 China Based Trifluoromethyl Iodide Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Trifluoromethyl Iodide Production Value (2021-2026)

4.5.3 China Based Manufacturers Trifluoromethyl Iodide Production (2021-2026)

4.6 Rest of World Based Trifluoromethyl Iodide Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Trifluoromethyl Iodide Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Trifluoromethyl Iodide Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Trifluoromethyl Iodide Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Trifluoromethyl Iodide Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Purity?99%

5.2.2 Purity?99.9%

5.2.3 Purity?99.99%

5.2.4 Others

5.3 Market Segment by Type

5.3.1 World Trifluoromethyl Iodide Production by Type (2021-2032)

5.3.2 World Trifluoromethyl Iodide Production Value by Type (2021-2032)

5.3.3 World Trifluoromethyl Iodide Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY APPLICATION

6.1 World Trifluoromethyl Iodide Market Size Overview by Application: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Application

6.2.1 Fire Extinguishing Agent

6.2.2 Refrigerant

- 6.2.3 Foaming Agent
- 6.2.4 Fluorine-Containing Intermediate
- 6.2.5 Semiconductor Etching
- 6.2.6 Others
- 6.3 Market Segment by Application
 - 6.3.1 World Trifluoromethyl Iodide Production by Application (2021-2032)
 - 6.3.2 World Trifluoromethyl Iodide Production Value by Application (2021-2032)
 - 6.3.3 World Trifluoromethyl Iodide Average Price by Application (2021-2032)

7 COMPANY PROFILES

- 7.1 Iofina
 - 7.1.1 Iofina Details
 - 7.1.2 Iofina Major Business
 - 7.1.3 Iofina Trifluoromethyl Iodide Product and Services
 - 7.1.4 Iofina Trifluoromethyl Iodide Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 7.1.5 Iofina Recent Developments/Updates
 - 7.1.6 Iofina Competitive Strengths & Weaknesses
- 7.2 Ajay-SQM Group
 - 7.2.1 Ajay-SQM Group Details
 - 7.2.2 Ajay-SQM Group Major Business
 - 7.2.3 Ajay-SQM Group Trifluoromethyl Iodide Product and Services
 - 7.2.4 Ajay-SQM Group Trifluoromethyl Iodide Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 7.2.5 Ajay-SQM Group Recent Developments/Updates
 - 7.2.6 Ajay-SQM Group Competitive Strengths & Weaknesses
- 7.3 Tosoh Finechem
 - 7.3.1 Tosoh Finechem Details
 - 7.3.2 Tosoh Finechem Major Business
 - 7.3.3 Tosoh Finechem Trifluoromethyl Iodide Product and Services
 - 7.3.4 Tosoh Finechem Trifluoromethyl Iodide Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 7.3.5 Tosoh Finechem Recent Developments/Updates
 - 7.3.6 Tosoh Finechem Competitive Strengths & Weaknesses
- 7.4 Beijing Yuji Science & Technology
 - 7.4.1 Beijing Yuji Science & Technology Details
 - 7.4.2 Beijing Yuji Science & Technology Major Business
 - 7.4.3 Beijing Yuji Science & Technology Trifluoromethyl Iodide Product and Services

7.4.4 Beijing Yuji Science & Technology Trifluoromethyl Iodide Production, Price, Value, Gross Margin and Market Share (2021-2026)

7.4.5 Beijing Yuji Science & Technology Recent Developments/Updates

7.4.6 Beijing Yuji Science & Technology Competitive Strengths & Weaknesses

7.5 Shandong Zhongshan Photoelectric Materials

7.5.1 Shandong Zhongshan Photoelectric Materials Details

7.5.2 Shandong Zhongshan Photoelectric Materials Major Business

7.5.3 Shandong Zhongshan Photoelectric Materials Trifluoromethyl Iodide Product and Services

7.5.4 Shandong Zhongshan Photoelectric Materials Trifluoromethyl Iodide Production, Price, Value, Gross Margin and Market Share (2021-2026)

7.5.5 Shandong Zhongshan Photoelectric Materials Recent Developments/Updates

7.5.6 Shandong Zhongshan Photoelectric Materials Competitive Strengths & Weaknesses

7.6 Yangzhou Model Eletronic Materials

7.6.1 Yangzhou Model Eletronic Materials Details

7.6.2 Yangzhou Model Eletronic Materials Major Business

7.6.3 Yangzhou Model Eletronic Materials Trifluoromethyl Iodide Product and Services

7.6.4 Yangzhou Model Eletronic Materials Trifluoromethyl Iodide Production, Price, Value, Gross Margin and Market Share (2021-2026)

7.6.5 Yangzhou Model Eletronic Materials Recent Developments/Updates

7.6.6 Yangzhou Model Eletronic Materials Competitive Strengths & Weaknesses

7.7 Suzhou Chemwells Advanced Materials

7.7.1 Suzhou Chemwells Advanced Materials Details

7.7.2 Suzhou Chemwells Advanced Materials Major Business

7.7.3 Suzhou Chemwells Advanced Materials Trifluoromethyl Iodide Product and Services

7.7.4 Suzhou Chemwells Advanced Materials Trifluoromethyl Iodide Production, Price, Value, Gross Margin and Market Share (2021-2026)

7.7.5 Suzhou Chemwells Advanced Materials Recent Developments/Updates

7.7.6 Suzhou Chemwells Advanced Materials Competitive Strengths & Weaknesses

8 INDUSTRY CHAIN ANALYSIS

8.1 Trifluoromethyl Iodide Industry Chain

8.2 Trifluoromethyl Iodide Upstream Analysis

8.2.1 Trifluoromethyl Iodide Core Raw Materials

8.2.2 Main Manufacturers of Trifluoromethyl Iodide Core Raw Materials

8.3 Midstream Analysis

8.4 Downstream Analysis

8.5 Trifluoromethyl Iodide Production Mode

8.6 Trifluoromethyl Iodide Procurement Model

8.7 Trifluoromethyl Iodide Industry Sales Model and Sales Channels

8.7.1 Trifluoromethyl Iodide Sales Model

8.7.2 Trifluoromethyl Iodide Typical Distributors

9 RESEARCH FINDINGS AND CONCLUSION

10 APPENDIX

10.1 Methodology

10.2 Research Process and Data Source

10.3 Disclaimer

List Of Figures

LIST OF FIGURES

Table 1. World Trifluoromethyl Iodide Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Trifluoromethyl Iodide Production Value by Region (2021-2026) & (USD Million)

Table 3. World Trifluoromethyl Iodide Production Value by Region (2027-2032) & (USD Million)

Table 4. World Trifluoromethyl Iodide Production Value Market Share by Region (2021-2026)

Table 5. World Trifluoromethyl Iodide Production Value Market Share by Region (2027-2032)

Table 6. World Trifluoromethyl Iodide Production by Region (2021-2026) & (Tons)

Table 7. World Trifluoromethyl Iodide Production by Region (2027-2032) & (Tons)

Table 8. World Trifluoromethyl Iodide Production Market Share by Region (2021-2026)

Table 9. World Trifluoromethyl Iodide Production Market Share by Region (2027-2032)

Table 10. World Trifluoromethyl Iodide Average Price by Region (2021-2026) & (US\$/kg)

Table 11. World Trifluoromethyl Iodide Average Price by Region (2027-2032) & (US\$/kg)

Table 12. Trifluoromethyl Iodide Major Market Trends

Table 13. World Trifluoromethyl Iodide Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Tons)

Table 14. World Trifluoromethyl Iodide Consumption by Region (2021-2026) & (Tons)

Table 15. World Trifluoromethyl Iodide Consumption Forecast by Region (2027-2032) & (Tons)

Table 16. World Trifluoromethyl Iodide Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Trifluoromethyl Iodide Producers in 2025

Table 18. World Trifluoromethyl Iodide Production by Manufacturer (2021-2026) & (Tons)

Table 19. Production Market Share of Key Trifluoromethyl Iodide Producers in 2025

Table 20. World Trifluoromethyl Iodide Average Price by Manufacturer (2021-2026) & (US\$/kg)

Table 21. Global Trifluoromethyl Iodide Company Evaluation Quadrant

Table 22. World Trifluoromethyl Iodide Industry Rank of Major Manufacturers, Based on

Production Value in 2025

Table 23. Head Office and Trifluoromethyl Iodide Production Site of Key Manufacturer

Table 24. Trifluoromethyl Iodide Market: Company Product Type Footprint

Table 25. Trifluoromethyl Iodide Market: Company Product Application Footprint

Table 26. Trifluoromethyl Iodide Competitive Factors

Table 27. Trifluoromethyl Iodide New Entrant and Capacity Expansion Plans

Table 28. Trifluoromethyl Iodide Mergers & Acquisitions Activity

Table 29. United States VS China Trifluoromethyl Iodide Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Trifluoromethyl Iodide Production Comparison, (2021 & 2025 & 2032) & (Tons)

Table 31. United States VS China Trifluoromethyl Iodide Consumption Comparison, (2021 & 2025 & 2032) & (Tons)

Table 32. United States Based Trifluoromethyl Iodide Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Trifluoromethyl Iodide Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Trifluoromethyl Iodide Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Trifluoromethyl Iodide Production (2021-2026) & (Tons)

Table 36. United States Based Manufacturers Trifluoromethyl Iodide Production Market Share (2021-2026)

Table 37. China Based Trifluoromethyl Iodide Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Trifluoromethyl Iodide Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Trifluoromethyl Iodide Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Trifluoromethyl Iodide Production, (2021-2026) & (Tons)

Table 41. China Based Manufacturers Trifluoromethyl Iodide Production Market Share (2021-2026)

Table 42. Rest of World Based Trifluoromethyl Iodide Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Trifluoromethyl Iodide Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Trifluoromethyl Iodide Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Trifluoromethyl Iodide Production, (2021-2026) & (Tons)

Table 46. Rest of World Based Manufacturers Trifluoromethyl Iodide Production Market Share (2021-2026)

Table 47. World Trifluoromethyl Iodide Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Trifluoromethyl Iodide Production by Type (2021-2026) & (Tons)

Table 49. World Trifluoromethyl Iodide Production by Type (2027-2032) & (Tons)

Table 50. World Trifluoromethyl Iodide Production Value by Type (2021-2026) & (USD Million)

Table 51. World Trifluoromethyl Iodide Production Value by Type (2027-2032) & (USD Million)

Table 52. World Trifluoromethyl Iodide Average Price by Type (2021-2026) & (US\$/kg)

Table 53. World Trifluoromethyl Iodide Average Price by Type (2027-2032) & (US\$/kg)

Table 54. World Trifluoromethyl Iodide Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 55. World Trifluoromethyl Iodide Production by Application (2021-2026) & (Tons)

Table 56. World Trifluoromethyl Iodide Production by Application (2027-2032) & (Tons)

Table 57. World Trifluoromethyl Iodide Production Value by Application (2021-2026) & (USD Million)

Table 58. World Trifluoromethyl Iodide Production Value by Application (2027-2032) & (USD Million)

Table 59. World Trifluoromethyl Iodide Average Price by Application (2021-2026) & (US\$/kg)

Table 60. World Trifluoromethyl Iodide Average Price by Application (2027-2032) & (US\$/kg)

Table 61. Iofina Basic Information, Manufacturing Base and Competitors

Table 62. Iofina Major Business

Table 63. Iofina Trifluoromethyl Iodide Product and Services

Table 64. Iofina Trifluoromethyl Iodide Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 65. Iofina Recent Developments/Updates

Table 66. Iofina Competitive Strengths & Weaknesses

Table 67. Ajay-SQM Group Basic Information, Manufacturing Base and Competitors

Table 68. Ajay-SQM Group Major Business

Table 69. Ajay-SQM Group Trifluoromethyl Iodide Product and Services

Table 70. Ajay-SQM Group Trifluoromethyl Iodide Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 71. Ajay-SQM Group Recent Developments/Updates

- Table 72. Ajay-SQM Group Competitive Strengths & Weaknesses
- Table 73. Tosoh Finechem Basic Information, Manufacturing Base and Competitors
- Table 74. Tosoh Finechem Major Business
- Table 75. Tosoh Finechem Trifluoromethyl Iodide Product and Services
- Table 76. Tosoh Finechem Trifluoromethyl Iodide Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 77. Tosoh Finechem Recent Developments/Updates
- Table 78. Tosoh Finechem Competitive Strengths & Weaknesses
- Table 79. Beijing Yuji Science & Technology Basic Information, Manufacturing Base and Competitors
- Table 80. Beijing Yuji Science & Technology Major Business
- Table 81. Beijing Yuji Science & Technology Trifluoromethyl Iodide Product and Services
- Table 82. Beijing Yuji Science & Technology Trifluoromethyl Iodide Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 83. Beijing Yuji Science & Technology Recent Developments/Updates
- Table 84. Beijing Yuji Science & Technology Competitive Strengths & Weaknesses
- Table 85. Shandong Zhongshan Photoelectric Materials Basic Information, Manufacturing Base and Competitors
- Table 86. Shandong Zhongshan Photoelectric Materials Major Business
- Table 87. Shandong Zhongshan Photoelectric Materials Trifluoromethyl Iodide Product and Services
- Table 88. Shandong Zhongshan Photoelectric Materials Trifluoromethyl Iodide Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 89. Shandong Zhongshan Photoelectric Materials Recent Developments/Updates
- Table 90. Shandong Zhongshan Photoelectric Materials Competitive Strengths & Weaknesses
- Table 91. Yangzhou Model Eletronic Materials Basic Information, Manufacturing Base and Competitors
- Table 92. Yangzhou Model Eletronic Materials Major Business
- Table 93. Yangzhou Model Eletronic Materials Trifluoromethyl Iodide Product and Services
- Table 94. Yangzhou Model Eletronic Materials Trifluoromethyl Iodide Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 95. Yangzhou Model Eletronic Materials Recent Developments/Updates
- Table 96. Yangzhou Model Eletronic Materials Competitive Strengths & Weaknesses

Table 97. Suzhou Chemwells Advanced Materials Basic Information, Manufacturing Base and Competitors

Table 98. Suzhou Chemwells Advanced Materials Major Business

Table 99. Suzhou Chemwells Advanced Materials Trifluoromethyl Iodide Product and Services

Table 100. Suzhou Chemwells Advanced Materials Trifluoromethyl Iodide Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 101. Suzhou Chemwells Advanced Materials Recent Developments/Updates

Table 102. Suzhou Chemwells Advanced Materials Competitive Strengths & Weaknesses

Table 103. Global Key Players of Trifluoromethyl Iodide Upstream (Raw Materials)

Table 104. Global Trifluoromethyl Iodide Typical Customers

Table 105. Trifluoromethyl Iodide Typical Distributors

LIST OF FIGURES

Figure 1. Trifluoromethyl Iodide Picture

Figure 2. World Trifluoromethyl Iodide Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Trifluoromethyl Iodide Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Trifluoromethyl Iodide Production (2021-2032) & (Tons)

Figure 5. World Trifluoromethyl Iodide Average Price (2021-2032) & (US\$/kg)

Figure 6. World Trifluoromethyl Iodide Production Value Market Share by Region (2021-2032)

Figure 7. World Trifluoromethyl Iodide Production Market Share by Region (2021-2032)

Figure 8. North America Trifluoromethyl Iodide Production (2021-2032) & (Tons)

Figure 9. Europe Trifluoromethyl Iodide Production (2021-2032) & (Tons)

Figure 10. China Trifluoromethyl Iodide Production (2021-2032) & (Tons)

Figure 11. Japan Trifluoromethyl Iodide Production (2021-2032) & (Tons)

Figure 12. Trifluoromethyl Iodide Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Trifluoromethyl Iodide Consumption (2021-2032) & (Tons)

Figure 15. World Trifluoromethyl Iodide Consumption Market Share by Region (2021-2032)

Figure 16. United States Trifluoromethyl Iodide Consumption (2021-2032) & (Tons)

Figure 17. China Trifluoromethyl Iodide Consumption (2021-2032) & (Tons)

Figure 18. Europe Trifluoromethyl Iodide Consumption (2021-2032) & (Tons)

- Figure 19. Japan Trifluoromethyl Iodide Consumption (2021-2032) & (Tons)
- Figure 20. South Korea Trifluoromethyl Iodide Consumption (2021-2032) & (Tons)
- Figure 21. ASEAN Trifluoromethyl Iodide Consumption (2021-2032) & (Tons)
- Figure 22. India Trifluoromethyl Iodide Consumption (2021-2032) & (Tons)
- Figure 23. Producer Shipments of Trifluoromethyl Iodide by Manufacturer Revenue (\$MM) and Market Share (%): 2025
- Figure 24. Global Four-firm Concentration Ratios (CR4) for Trifluoromethyl Iodide Markets in 2025
- Figure 25. Global Four-firm Concentration Ratios (CR8) for Trifluoromethyl Iodide Markets in 2025
- Figure 26. United States VS China: Trifluoromethyl Iodide Production Value Market Share Comparison (2021 & 2025 & 2032)
- Figure 27. United States VS China: Trifluoromethyl Iodide Production Market Share Comparison (2021 & 2025 & 2032)
- Figure 28. United States VS China: Trifluoromethyl Iodide Consumption Market Share Comparison (2021 & 2025 & 2032)
- Figure 29. United States Based Manufacturers Trifluoromethyl Iodide Production Market Share 2025
- Figure 30. China Based Manufacturers Trifluoromethyl Iodide Production Market Share 2025
- Figure 31. Rest of World Based Manufacturers Trifluoromethyl Iodide Production Market Share 2025
- Figure 32. World Trifluoromethyl Iodide Production Value by Type, (USD Million), 2021 & 2025 & 2032
- Figure 33. World Trifluoromethyl Iodide Production Value Market Share by Type in 2025
- Figure 34. Purity?99%
- Figure 35. Purity?99.9%
- Figure 36. Purity?99.99%
- Figure 37. Others
- Figure 38. World Trifluoromethyl Iodide Production Market Share by Type (2021-2032)
- Figure 39. World Trifluoromethyl Iodide Production Value Market Share by Type (2021-2032)
- Figure 40. World Trifluoromethyl Iodide Average Price by Type (2021-2032) & (US\$/kg)
- Figure 41. World Trifluoromethyl Iodide Production Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 42. World Trifluoromethyl Iodide Production Value Market Share by Application in 2025
- Figure 43. Fire Extinguishing Agent
- Figure 44. Refrigerant

Figure 45. Foaming Agent

Figure 46. Fluorine-Containing Intermediate

Figure 47. Semiconductor Etching

Figure 48. Others

Figure 49. World Trifluoromethyl Iodide Production Market Share by Application (2021-2032)

Figure 50. World Trifluoromethyl Iodide Production Value Market Share by Application (2021-2032)

Figure 51. World Trifluoromethyl Iodide Average Price by Application (2021-2032) & (US\$/kg)

Figure 52. Trifluoromethyl Iodide Industry Chain

Figure 53. Trifluoromethyl Iodide Procurement Model

Figure 54. Trifluoromethyl Iodide Sales Model

Figure 55. Trifluoromethyl Iodide Sales Channels, Direct Sales, and Distribution

Figure 56. Methodology

Figure 57. Research Process and Data Source

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