

# Global Trifluoroiodomethane for Fire Extinguishing Agent Market Growth 2026-2032

<https://marketpublishers.com/r/G6AB0CD304C6EN.html>

Date: February 2026

Pages: 96

Price: US\$ 3,660.00 (Single User License)

ID: G6AB0CD304C6EN

## Abstracts

The global Trifluoroiodomethane for Fire Extinguishing Agent market size is predicted to grow from US\$ 19.54 million in 2025 to US\$ 28.6 million in 2032; it is expected to grow at a CAGR of 5.7% from 2026 to 2032.

Trifluoroiodomethane for Fire Extinguishing Agent (CF<sub>3</sub>I) is an advanced eco-friendly gaseous extinguishing agent characterized by excellent fire suppression efficiency and near-zero ozone depletion potential (ODP<sub>0</sub>). It has emerged as one of the most promising substitutes for halons. The main upstream raw materials include iodides, hydrogen fluoride, trifluoromethane, and metal catalysts, which are processed through controlled fluorination and purification to obtain high-purity CF<sub>3</sub>I. The major downstream customers are in the aerospace and defense sectors, marine fire suppression systems, data centers, power substations, rail transit, and telecommunication facilities. In 2024, the global production capacity of CF<sub>3</sub>I for fire extinguishing reached approximately 60 tons, with an effective sales volume of about 41.7 tons, an average market price of around USD 459 per kilogram, and an industry gross margin of roughly 31%. Policy frameworks such as the Montreal Protocol and the Kigali Amendment have accelerated the phase-out of traditional halogenated agents, providing substitution opportunities for CF<sub>3</sub>I. Additionally, stricter safety standards for energy storage and electric vehicles are expanding its downstream applications. Technological innovation in CF<sub>3</sub>I-based hybrid extinguishing systems (mixed with inert gases or CO<sub>2</sub>) enhances both safety and cost efficiency. Future market opportunities are primarily driven by environmental compliance mandates, the upgrading of industrial and data center fire protection systems, and increasing demand for high-reliability, green extinguishing solutions.

The market for trifluoroiodomethane used in fire extinguishing systems is experiencing steady development, primarily driven by the rising global demand for environmentally

friendly alternative fire suppressants. With traditional halogenated agents being phased out, CF<sub>3</sub>I has gained attention for its high extinguishing efficiency, negligible ozone depletion potential, and relatively low global warming potential (GWP). Governments worldwide are promoting sustainable fire safety systems, encouraging adoption in sectors such as data centers, energy infrastructure, aerospace, and advanced manufacturing. Meanwhile, increasing automation and high energy-density equipment are pushing for faster, more reliable fire suppression systems, providing a solid technological foundation for CF<sub>3</sub>I's expansion.

Looking ahead, the growing deployment of new energy facilities, energy storage systems, and electric vehicles will drive rapid growth in CF<sub>3</sub>I applications for high-voltage and battery safety protection. Stricter environmental regulations continue to accelerate the replacement of conventional halocarbon agents, positioning CF<sub>3</sub>I within the broader industry shift toward green and low-carbon technologies. Regulatory upgrades in major economies are also standardizing CF<sub>3</sub>I-based systems, with future trends emphasizing higher purity and lower residue formulations to meet the requirements of critical and precision protection environments.

The main drivers of market growth include regulatory mandates, technological innovation, and the diversification of downstream applications. Reinforced environmental policies are providing a long-term growth framework for eco-friendly gaseous agents, while advances in synthesis and gas-blending technologies are enhancing safety and cost efficiency. The maturing development of CF<sub>3</sub>I-based hybrid systems—combining CF<sub>3</sub>I with inert gases or CO<sub>2</sub>—further strengthens its competitiveness through improved balance between safety and economics.

Nevertheless, several challenges remain. The production of CF<sub>3</sub>I requires highly controlled synthesis and ultra-pure raw materials, leading to elevated costs and limiting participation from smaller manufacturers. Additionally, strict standards for transportation and storage increase supply chain complexity, while regional disparities in fire safety regulations create certification and compliance barriers. Overall, under the dual forces of policy and innovation, the long-term outlook for the CF<sub>3</sub>I fire extinguishing agent market remains positive, with industry consolidation expected to intensify as technology and regulatory requirements evolve.

LP Information, Inc. (LPI) 's newest research report, the "Trifluoriodomethane for Fire Extinguishing Agent Industry Forecast" looks at past sales and reviews total world Trifluoriodomethane for Fire Extinguishing Agent sales in 2025, providing a comprehensive analysis by region and market sector of projected Trifluoriodomethane

for Fire Extinguishing Agent sales for 2026 through 2032. With Trifluoroiodomethane for Fire Extinguishing Agent sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Trifluoroiodomethane for Fire Extinguishing Agent industry.

This Insight Report provides a comprehensive analysis of the global Trifluoroiodomethane for Fire Extinguishing Agent landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Trifluoroiodomethane for Fire Extinguishing Agent portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Trifluoroiodomethane for Fire Extinguishing Agent market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Trifluoroiodomethane for Fire Extinguishing Agent and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Trifluoroiodomethane for Fire Extinguishing Agent.

This report presents a comprehensive overview, market shares, and growth opportunities of Trifluoroiodomethane for Fire Extinguishing Agent market by product type, application, key manufacturers and key regions and countries.

### **Segmentation by Type:**

Purity ? 99%

Purity ? 99.9%

Others

### **Segmentation by Packaging Form:**

Cylinder Supply

Bulk Supply

Others

**Segmentation by Fire Suppression System:**

Total Flooding System

Local Application System

Hybrid Gas System

**Segmentation by Application:**

Data Centers

Energy and Power Facilities

Others

**This report also splits the market by region:**

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Iofina

Ajay-SQM Group

Tosoh Finechem

Beijing Yuji Science & Technology

Shandong Zhongshan Photoelectric Materials

Yangzhou Model Eletronic Materials

Suzhou Chemwells Advanced Materials

### **Key Questions Addressed in this Report**

What is the 10-year outlook for the global Trifluoroiodomethane for Fire Extinguishing Agent market?

What factors are driving Trifluoroiodomethane for Fire Extinguishing Agent market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Trifluoroiodomethane for Fire Extinguishing Agent market opportunities vary by end market size?

How does Trifluoroiodomethane for Fire Extinguishing Agent break out by Type, by Application?

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