

Global Fluoromalononitrile Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Fluoromalononitrile market size is expected to reach \$ 1.50 million by 2032, rising at a market growth of 12.5% CAGR during the forecast period (2026-2032).

Fluoromalononitrile, or 2-fluoropropanedinitrile, is a fluorinated dinitrile molecule with the structural motif $\text{FCH}(\text{CN})_2$. It can be regarded as a highly electron-withdrawing fluorinated malononitrile building block. Potential uses include fluorinated fine-chemical intermediates, electron-deficient molecular building blocks, heterocycle synthesis, materials chemistry and exploratory electrolyte-additive research. Public commercial evidence, however, suggests that it remains a rare research or custom-synthesis compound rather than a mature bulk electrolyte additive.

Fluoromalononitrile, also referred to as 2-fluoromalononitrile, should be viewed as a niche fluorinated dinitrile building block rather than a commodity chemical. Its value comes from the combination of a fluorinated carbon center and two strongly electron-withdrawing cyano groups, which makes it useful for specialty synthesis, functional organic molecules, and exploratory materials chemistry.

From an industrial perspective, the product is positioned closer to specialty fluorochemical intermediates, research building blocks, and custom synthesis compounds. It is unlikely to represent a large-volume standalone market. Instead, demand is typically driven by pharmaceutical discovery, agrochemical R&D, advanced organic materials, photosensitive systems, and electron-deficient molecular design.

The key market attraction lies in its synthetic versatility. It can support the development of fluorinated heterocycles, functionalized dinitrile derivatives, and highly electron-poor organic structures. For suppliers, competitiveness is less about capacity and more

about high purity, reliable small-batch supply, impurity control, safe handling, and custom synthesis capability.

The main challenges are limited public application data, low market transparency, safety requirements associated with nitrile-containing compounds, and substitution risk from alternative fluorinated malonates, fluorinated nitriles, or other activated methylene derivatives. Therefore, fluoromalononitrile is best characterized as a high-value, low-volume, technology-driven specialty intermediate with opportunities in R&D-intensive downstream markets.

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

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

Highlights and key features of the study

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

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

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

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

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

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

Global Fluoromalononitrile production by Synthesis Route, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

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

This report profiles key players in the global Fluoromalononitrile 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 EvitaChem, BOC Sciences, Apollo Scientific,

Tokyo Chemical Industry Co., Ltd., AK Scientific, Inc., 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 Fluoromalononitrile 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 Synthesis Route, 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 Fluoromalononitrile Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Fluoromalononitrile Market, Segmentation by Synthesis Route:

Direct Fluorination of Malononitrile Derivatives

Halogen-exchange / Substitution Route

Electrophilic Fluorination Route

Global Fluoromalononitrile Market, Segmentation by Impurity Control Focus:

Residual Malononitrile Control

Halide / Fluorinating Reagent Residue Control

Moisture / Acidic Impurity Control

Structural Isomer / Byproduct Control

Metal Ion Control

Global Fluoromalononitrile Market, Segmentation by Chemical Role:

Fluorinated Electron-withdrawing Building Block

Heterocycle Synthesis Intermediate

Electrolyte Additive Candidate Molecule

Physical Chemistry Probe Molecule

Global Fluoromalononitrile Market, Segmentation by Application:

Fluorinated Building Block Research

Heterocycle / Fine Chemical Intermediate

Battery Electrolyte Additive Screening

Materials Chemistry / Electron-deficient Molecules

Companies Profiled:

EvitaChem

BOC Sciences

Apollo Scientific

Tokyo Chemical Industry Co., Ltd.

AK Scientific, Inc.

Key Questions Answered:

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

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