

# Potassium Fluorosilicate (CAS 16871-90-2) Market Research Report 2025

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## Abstracts

Potassium Fluorosilicate (CAS 16871-90-2) Market Research Report 2025 presents comprehensive data on Potassium Fluorosilicate markets globally and regionally (Europe, Asia, North America etc.)

The report includes Potassium Fluorosilicate description, covers its application areas and related patterns. It overviews Potassium Fluorosilicate market, names Potassium Fluorosilicate producers and indicates its suppliers.

Besides, the report provides Potassium Fluorosilicate prices in regional markets.

In addition to the above the report determines Potassium Fluorosilicate consumers in the market.

BAC Reports offers its clients in-depth market research of chemical industry products on the global and regional markets (North & Latin America, Asia Pacific, European Union, Russia and CIS).

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capacities and production

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existing technologies

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market forecast.

Potassium Fluorosilicate (CAS 16871-90-2) Market Research Report 2025 can feature:

market condition and estimations, market forecast

chemical product ranges, trademarks, analogous products, application areas

regional and global producers, consumers and traders (including contact details).

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\*Please note that Potassium Fluorosilicate (CAS 16871-90-2) Market Research Report 2025 is a half ready publication and contents are subject to change. It only requires updating with the help of new data that are constantly retrieved from Publisher's databases and other sources. This updating process takes 5-7 business days after order is placed. Thus, our clients always obtain a revised and updated version of each report. Please also note that we do not charge for such an updating procedure. BAC Reports has information for more than 25,000 different chemicals available but it is impossible to have all reports updated immediately. That is why it takes 5-7 days to update a report after an order is received.

## About

Product Name: Potassium Fluorosilicate

Synonyms:

Potassium Silicofluoride

Potassium Hexafluorosilicate

Potassium Fluosilicate

Potassium fluosilicate

Potassium hexafluorosilicate

Potassium silicofluoride

CAS#: 16871-90-2

Formula:  $F_6K_2Si$

Molecular Weight: 220.27

Potassium fluorosilicate (dipotassium hexafluorosilicon(2-)) is a dry, white, free-flowing, crystalline powder with the formula  $F_6K_2Si$ . It is almost insoluble in water, aqueous ammonia and ethanol; but soluble in hydrochloric acid. Potassium fluorosilicate is decomposed by heat to potassium fluoride (KF) and silicon tetrafluoride ( $SiF_4$ ), and hydrolyzed in hot water to potassium fluoride, hydrogen fluoride (HF) and silicic acid ( $H_2SiO_3$ ). This chemical is highly toxic, may be fatal if inhaled, swallowed or absorbed through skin.

Potassium fluorosilicate has weak oxidizing or reducing powers; though Redox reactions can still occur. Most compounds in this class are slightly soluble or insoluble in water. If soluble in water, then the solutions are usually neither strongly acidic nor strongly basic. These compounds are not water-reactive.

Potassium fluorosilicate is widely applied in wood preservation, ceramic and optical glass manufacture, in aluminum and magnesium smelting, in the synthesis of the mica. Potassium fluorosilicate is also used in specialized glasses, ceramics, enamels and as an insecticide.

Patented uses of potassium fluorosilicate include processes for preparing silicon tetrafluoride by the thermal decomposition of an alkali or alkaline earth-metal fluorosilicate in a fluidized bed reactor.

Also, the potassium fluorosilicate, recovered during the reaction of potassium fluoride and silica with an aqueous solution of hydrofluorosilicic acid, may further react with ammonia in water to form an aqueous mixture of ammonium fluoride and potassium fluoride.

Potassium fluorosilicate market is covered in the study Potassium Fluorosilicate (CAS 16871-90-2) Market Research Report 2025. The report encompasses proper description of the product, unveils application areas, and briefly summarizes patents in the sphere. It overlooks potassium fluorosilicate market situation, names manufacturers, suppliers as well as users. The report also provides current potassium fluorosilicate prices in the market.

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