

# Ferrocene (CAS 102-54-5) Market Research Report 2025

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## Abstracts

Ferrocene (CAS 102-54-5) Market Research Report 2025 presents comprehensive data on Ferrocene markets globally and regionally (Europe, Asia, North America etc.)

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

Besides, the report provides Ferrocene prices in regional markets.

In addition to the above the report determines Ferrocene 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.

Ferrocene (CAS 102-54-5) 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 Ferrocene (CAS 102-54-5) 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: Ferrocene

Synonyms:

(RS)-3-Hydroxytetrahydrofuran

3-Hydroxyoxolane

3-Hydroxytetrahydrofuran

bis(Cyclopentadienyl)iron

Iron dicyclopentadienyl

Oxolan-3-ol

Bis-(cyclopentadienyl)-iron

Cyclopenta-1,3-diene iron(2+)

Dicyclopentadienyl iron

Ferrotsen

CAS#: 102-54-5

Formula:  $C_{10}H_{10}Fe$

Molecular Weight: 186.03

Appearance: Clear light yellow.

Usage: Antiknock additive for gasoline, catalyst.

Ferrocene (Bis(cyclopentadienyl)iron; Ferrotsen; Biscyclopentadienyl iron; Iron dicyclopentadienyl; Iron bis (cyclopentadiene);bis(eta(5)-cyclopentadienyl)iron(II); [Fe(eta(5)-C<sub>5</sub>H<sub>5</sub>)<sub>2</sub>];cyclopenta-1,3-diene; iron; etc.) refers to an organometallic compound that consists of two cyclopentadienyl rings bound on opposite sides of a central metal atom. The molecular formula of ferrocene is C<sub>10</sub>H<sub>10</sub>Fe.

Ferrocene was first prepared as a result of the reaction of sodium cyclopentadienide with iron(+2) chloride.

Ferrocene is an orange solid with a camphor-like smell. Its boiling point is 249 °C. The compound is practically insoluble in water but soluble in most organic solvents. Ferrocene is stable at room temperature and incompatible with strong agents. Chemically, the product is similar to benzene and other aromatic compounds. Ferrocene is highly explosive in contact with tetranitromethane under various conditions.

Ferrocene and its derivatives have many niche uses due to their unusual structure, robustness and redox. The compound is used in the fuel for petrol engines; as a catalyst for the production of carbon nanotubes; as ligands for transition-metal catalyzed reactions in the synthesis of pharmaceuticals and agrochemicals. Besides, ferrocene exhibits anti-tumor effects and anti-cancer activity.

The compound may cause serious side effects such as damage to the red blood cells, delayed pulmonary edema, and kidney, lung and liver damage. Moreover, ferrocene can cause irreversible effects. Vomiting; diarrhea; nausea; increased salivation; skin, eyes, digestive and respiratory tract irritation are among other side effects of ferrocene.

Ferrocene market is covered in the study Ferrocene (CAS 102-54-5) Market Research Report 2025. The report encompasses proper description of the product, unveils application areas, and briefly summarizes patents in the sphere. It overlooks ferrocene market situation, names manufacturers, suppliers as well as users. The report also provides current ferrocene prices in the market.

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