

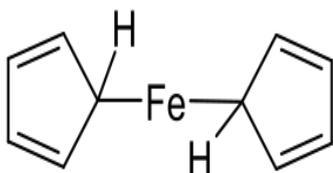
**Chemical Name: Ferrocene**

Type: Antiknock Agents/Octane Uumber Improver  
MolecularWeight:186.03

**Synonyms:** Biscyclopentadienyliron; di-2,4-cyclopentadien-1-yliron; ferrotsen; Bis(cyclopentadiene); Iron Dicyclopentadienyl.

**CAS No.:** 102-54-5

**Structural Formula:**



**Property:** It is orange crystal with camphor like smell. It can be sublimed over 100°C, melting point: 172-174°C, boiling point: 249°C. It is soluble in organic solvents such as gasoline, benzene, ethanol, ether etc., but not soluble in water & in boiled alkali solution & hydrochloric acid. It is very stable, heat-resistant up to 400°C, UV-resistant.

**Specification:**

Item	Index		
Content:	99.9% min	99%min	98%min.
Free Fe Content:	0.01% max	0.01%max	0.02 %max.
Moisture:	0.03% max	0.1%max	0.3 %max.

**Handling and Storage**

**Handling:** Wash thoroughly after handling. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep container tightly closed. Keep away from heat, sparks and flame. Avoid ingestion and inhalation. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames.

**Storage:** Keep away from heat, sparks, and flame. Keep away from sources of ignition. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

**Application:**

It is an advanced additive for eliminating smoking & saving energy used in various fuels such as gasoline, diesel oil, coal & some aviation oils. It can improve the octane value of fuels, when we add 1000ppm ferrocene in gasoline of which the octane value is only 56, the octane value of gasoline will be improved to 70. Moreover, it can be used as light sensitizer of plastics, antiknock agent, polymer initiator and catalyst to the synthesise ammonia.

Usage proportion of Ferrocene in fuel oil for 0.1%-0.3% (V/V)

then octane value of fuel oil can increase 4.5-10 unit and can reduce pollutants in automobile exhaust emissions 30%-70%,can increase vehicle power 10%-13% and reduce fuel consumption 10%-14%.

**Package:** Packed in 25kg cardboard drum or 25kg bag.



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