

Chemical Name: Tricarbonyl (methylcyclopentadienyl) manganese (MMT) Type: Antiknock agent/Octane Number Inprover Molecular Weight: 218.09 CAS No.: 12108-13-3			Application:(1) MMT can increase the gasoline octanenumberIn one ten thousandth of gasoline by addingMMT, the manganese content of not more
Formula: C9H7Mn			than 18mg / L, can increase gasoline octane
<b>Property:</b> This product is mainly about MMT, it composite detergent-dispersants, antioxidants, and cosolvent in certain temperature and processing conditions to green environmental gasoline additives. It can react with RCOOH generated normal alkanes and oxidation, interrupt the reaction generated by ring olefins and bolymer olefins. Thus generating aldehydes and ketones or other epoxy cures, it is applicable to various gasoline concocting			<ul> <li>number of 2 to 3 units.</li> <li>(2)MMT can increase in vehicle power and reduce fuel consumption By the Ministry of Transportation motor transport industry and energy use monitoring center showed that the engine test aircraft: MMT additions of 90 # unleaded gasoline with non-MMT # 90 compared to unleaded petrol, the engine power and performance to lower fuel consumption. </li> <li>(3) with oxygen, such as MTBE and ethanol were good with the group of MMT and MTBE, the octane number of ethanol to improve with better adduct, which</li> </ul>
components and etc, raise gasoline antiknock			
properties.			
Specification:			
Item Index			
Appearance	Orange transparent liquid	Orange transparent liquid	provided for the production of high-grade gasoline convenience.Can meet the higher octane number, and avoid the use of MTBE due to excessive performance degradation caused by excessive automobile power, and can meet the "oxygen content not more than 2.7 percent" of the national standards.
Manganese content(20℃)	24.4m/m min	15.1m/m min	
Density(20°C)	1.36-1.38g/m3	1.10-1.12g/m3	
Purity	98% min	98% min	
Moisture	200mg/kg max	200 mg/kg max	(4) MMT can reduce pollutants in automobile
Freezing point (initial)	-1℃ max	-22 °C max	exhaust emissions MMT additions of 90 # unleaded petrol and non-PPD 90 # unleaded gasoline in the exhaust gas compared to CO decreased
Flash point of closed entry	80°C min	30℃ min	
Solubility	Freely soluble	Freely soluble	- 17.7%, HC decreased 18.2%.
Handling and Storage Precautions for safe handling Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Normal measures for preventive fire protection.			<ul> <li>(5) , motor vehicle exhaust catalytic</li> <li>converters to improve the role of</li> <li>Phosphorus is recognized as toxic catalysts,</li> <li>MMT combustion to remove phosphorus and</li> <li>reduce the catalytic converter on the</li> </ul>

## SHANGHAI MINTCHEM DEVELOPMENT CO.,LTD



**Conditions for safe storage,** including any incompatibilities Store in cool place. Keep container tightly closed in a dry and wellventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

## Specific end uses no data available





sediment, so the use of MMT fuel to extend the life of the catalyst, the catalyst to maintain a high conversion rate, so as to more effectively into the harmful gases, reduce pollutant emissions.

(6) MMT can improve refinery operations1.reduce the reformer operating severity2. reduce the aromatics content in gasoline3.reduce the olefin content in gasoline4.reduce the demand for crude oil

(7) MMT can increase the flexibility of blending oil

Through the rational use of MMT, MTBE, gasoline reforming, catalytic gasoline and straight-run out of petrol to the petroleum products of various specifications.

THE REFERENCEDOSAGE:When 90# gasoline adjustment to 97 # gasoline,Usage proportion is 2%-3% (V/V);can reduce fuel consumption 10%-15%.The reference dosage:0.1-0.13%(v/v)

**Package**: Packed in 220kg galvanization Iron drum.