



**1.Product Name:** High Purity Manganese Nitrate

**2.Chemical formula & Molecular weight:**

Chemical formula:  $\text{Mn}(\text{NO}_3)_2 \cdot 4\text{H}_2\text{O}$ ;      Molecular weight: 251.01

**3.Features of Product**

Manganese nitrate used in industry is always 50% liquid manganese nitrate; it is clear and colorless liquid in light red and rose. Relative density is 1.54(20°C), soluble in water and alcohol, extract manganese dioxide and release manganese dioxide when it heated, oxidized in air easily. Solid manganese nitrate is usually pale pink needle-like diamond crystals; it has no water, one water, Sanshui, four rivers and six water several forms, melting point is 25.8 , boiling point is 129.5°C, density is 1.82g/cm<sup>3</sup> (21°C, 6 water), 1.9g/cm<sup>3</sup> (21°C, 4 water), soluble in water and alcohol, form manganese dioxide in 160-200°C, deliquescence and oxidized easily. The advantage of our Manganese Nitrate is high purity, high density, density>1.9g/cm<sup>3</sup> good stability. In the 65°C constant temperature conditions, the product doesn't turn dark and no precipitation

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#### 4.Main Purpose:

Manganese nitrate is a versatile chemical raw materials, it can be used as ceramic colorants and metal phosphating; it also used as a reagent for chemical analysis, determine antimony, silver and rare earth separation, and it be used as Catalyst for hardening oils, raw material of resistance and iron oxide, or the preparation of high quality raw material of manganese dioxide. The high purity manganese nitrate in our company has proved to be stable and homogeneous properties, it mainly used in electronic industry, and it is also a high-class raw material for the catalytic agent of denigrations.

#### 5.Specification

Item	Specification		
	XSM-01	XSM-02	XSM-03
Specific Gravith(60°C) g/mL	1.50-1.54	1.64-1.68	1.90-1.95
Mn(NO <sub>3</sub> ) <sub>2</sub> (%) ≥	49-51	56-58	70-75
Fe(ppm) ≤	5	5	5
Zn(ppm) ≤	50	50	50
Pb(ppm) ≤	30	30	30
K(ppm) ≤	50	50	50
Na(ppm) ≤	50	50	50
Ca(ppm) ≤	50	50	50
Mg(ppm) ≤	50	50	50

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Cl-(ppm)	≤	10	10	10
SO <sub>2</sub> -(%)	≤	0.03	0.03	0.03
HNO <sub>3</sub> (%)		0.15-0.45	0.15-0.45	0.15-0.45

6.Package: White plastic drums, net wt.5Kg or 30Kg, 5kg\*4 cases/box, also can be ordered as customer's requirements

7.Storage and Transport: Sealed, stored in ventilated and dry place

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