



**Specifications of Methylcyclopentadienyl Manganese Tricarbonyl,
(98% MMT)**

Product name	TDS-2440 (98% MMT, 24.4% Manganese)
CAS No.	12108-13-3
Molecular Weight	218.10
Molecular Formula	$C_9H_7MnO_3$
Appearance	Reddish-brown
Purity of MMT	98% \geq
Manganese content	24.40%
Specific Gravity/Density 20 °C	1.35~1.38 = 1.0 water
Flash Point	82 °C
Boiling Point	232~233°C/760mmHg
ACGIH	0.2 mg/m ³ as Mn.
NIOSH	0.2 mg/m ³ TWA
OSHA Vacated PELs	As Mn. 0.2 mg/m ³ TWA
TLV (as Mn)	Ppm; 0.2 mg/m ³ (skin)
Odor	Herbaceous odor
Vapor Pressure	7mmHg/100°C
Vapor Density	\geq 1.0
Solubility in water	10ppm(20°C)
Freezing/Melting Point	-1 deg °C
Viscosity, CP 16°C (60°F) mm ² /3	5.32
Viscosity, CP 40°C (100°F) mm ² /s	3.12
Viscosity, CP 100°C (212°F) m ² /s	0.33
Specific Gravity@ 16°C	1.395
Flash Point, TCC, °C	82.0
Flash Point, PMCC, °C	-----
Flash Point, COC, °C	-----
Solvent, % w/w	2.0%
Pour point °C (melt point)	-1 °C
Water content, %, w/w	0.007
Sediment content, %, w/w	0.05