



# Product Specification

## Product Name: MANGANESE (II) CHLORIDE Tetrahydrate AR

Alternate Name(s) Manganous chloride tetrahydrate; manganese dichloride tetrahydrate.

### Description

Rose-coloured crystals; deliquescent.

### Properties

Chemical Formula:  $MnCl_2 \cdot 4H_2O$

Molecular Weight: 197.9

Product Code: MA042

CAS No. 13446-34-9

### General Information:

Soluble in water and alcohol. Insoluble in ether. Incompatible with strong acids, sodium, potassium, zinc. May be harmful if swallowed. Non combustible material..

### Hazard and Safety Data

UN Group: None Allocated

Class: None Allocated

UN Number: None Allocated

Hazchem code: None Allocated

CS MSDS Code: 1CH47

Poison schedule: Not Scheduled

Emergency

Procedure Guide No.: N/A

### Quality Specification

Assay: 98.0 - 101.0 %

### Specific Properties and Impurities [Typical levels]:

Decomposition Temp. (loss of crystalline water)	100 °C
Specific Gravity	1.913
Boiling Point	1190 °C (anhydrous)
Melting Point	58 °C
pH of a 5% solution (@ 25 °C)	3.5-6.0
Insoluble matter	≤ 0.005%
Sulfate (SO <sub>4</sub> )	≤ 0.005%
Heavy metals (as Pb)	≤ 0.0005%
Iron (Fe)	≤ 0.0005%
Calcium (Ca)	≤ 0.005%
Magnesium (Mg)	≤ 0.005%
Potassium (K)	≤ 0.01%
Sodium (Na)	≤ 0.05%
Zinc (Zn)	≤ 0.005%

CONFORMS TO ACS

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