

# Chem-Impex International, Inc.

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## Certificate of Analysis

<b>Catalogue Number</b>	35680
<b>Lot Number</b>	002251-01520
<b>Product</b>	<b>Manganese(II) chloride tetrahydrate</b> Manganese dichloride tetrahydrate
<b>CAS Number</b>	13446-34-9
<b>Molecular Formula</b>	MnCl <sub>2</sub> •4H <sub>2</sub> O
<b>Molecular Weight</b>	197.91

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<b>Appearance</b>	Pink slightly deliquescent crystals
<b>Heavy Metals</b>	< 5 ppm (as Pb)
<b>Anion</b>	Sulfate (SO <sub>4</sub> ) : < 0.005%
<b>Cation</b>	Calcium (Ca) : 0.0022% Magnesium (Mg) : 0.0012% Potassium (K) : 0.0042% Sodium (Na) : 0.0012% Zinc (Zn) : 0.0028% Iron (Fe) : < 5 ppm
<b>pH</b>	5.06
<b>Insoluble material</b>	0.003%
<b>Assay by titration</b>	99.01%
<b>Storage</b>	Store at RT
<b>Remarks</b>	See material safety data sheet for additional information For laboratory use only

The foregoing is a copy of the Certificate of Analysis as provided by our supplier



**Bala Kumar**  
Quality Control Manager