



PRODUCT CODE: 131410

Manganese(II) Chloride 4-hydrate for analysis, ACS

$\text{Cl}_2\text{Mn}\cdot 4\text{H}_2\text{O}$

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M.= 197,91

CAS [13446-34-9]

EINECS 231-869-6

TARIC 2827 39 85 90

PHYSICAL DATA: crystals, Pink, Soluble in water 1.980 g/l at 20 °C Thermal decom. above 100 °C • Hygroscopic • D 2,01 • M.P.: 58 °C • pH(50 g/l)4 - 6 •

BIBLIOGRAPHY: Merck Index **12**, 5.768 13, 5.751 Sax **MAR250** • Safety **2** , **2194 C** • Römp **8** , **2482** • Fieser **7222 9288** • ACS **XI** • USP **42** • F.C.C **10 11** •

HAZARDOUS: RTECS: OO 9650000 • TDL0 oral rat 141 mg/kg • LD50 oral rat 1.484 mg/kg • LD50 ipr mus 144 mg/kg VLA-ED (Mn) 0,2 mg/m³



H: H302 •

P: P264 • P270 • P301+P312 • P330 • P501 • P391 •

SPECIFICATIONS:

Assay (Compl.) 98,0-101,0%

pH of 5% solution 3,5-6,0

Maximum limit of impurities

Insoluble matter in H₂O 0,005 %

Sulfate (SO₄) 0,005%

Oxidizing and reducing substances (as I)	0,0065%
Non-precipit. substances by S(NH4)2	0,2 %
Heavy Metals (ICP-OES)	0,0005 %
Ca	0,005 %
Cu	0,0005 %
Fe	0,0005 %
K	0,01 %
Mg	0,005 %
Na	0,02 %
Ni	0,002 %
Pb	0,0005 %
Zn	0,005 %

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