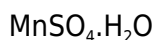
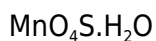


**PRODUCT CODE: 131413****Manganese(II) Sulfate 1-hydrate (Reag. Ph. Eur.) for analysis, ACS**

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M.= 169,01

CAS [10034-96-5]

EINECS 232-089-9

TARIC 2833 29 80 20

**PHYSICAL DATA:** crystals, Pink, Soluble in water 762 g/l at 20 °C Thermal decomp. above 117 °C • Hygroscopic • D 2,95 • M.P.: 117 °C • pH3,0 - 3,5 •

**BIBLIOGRAPHY:** Merck Index **12**, 5.782 13, 5.763 Safety **2**, **2195 C** • Römpp **8**, **2484** • ACS **XI** • BP.**2018** • USP **41** • Ph. Eur. **8.0** (2014) **9.0** (2017) • F.C.C **10 11** •

**HAZARDOUS:** C.E: 025-003-00-4 • RTECS: OP 0893500 • TDL0 oral mus 513 mg/kg • VLA-ED (Mn) 0,2 mg/m3



H: H373 • H411 •

P: P260 • P273 • P314 • P391 • P501 •

**TRANSPORT REGULATIONS:** UN: 3077 • ADR: 9/III • IMDG: 9/III • IATA: 9/III • PAX: 956 • CAO: 956 • (E) •

**SPECIFICATIONS:**

Assay (Compl.)	98,0-101,0%
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**Maximum limit of impurities**

Insoluble matter in H2O	0,005 %
Reducing substance to KMnO4 (as O)	0,0005 %
Loss on ignition	10,0-12,0 %

Chloride (Cl)	0,005%
Heavy metals (as Pb)	0,002%
Ca	0,005 %
Cu	0,0005 %
Fe	0,002 %
K	0,01 %
Mg	0,005 %
Na	0,05 %
Ni	0,02 %
Pb	0,001 %
Zn	0,005 %

Ed.: 3 . Vig.: 15.01.2011 .

Prod.: 131413