



PRODUCT CODE: 131413

Manganese(II) Sulfate 1-hydrate (Reag. Ph. Eur.) for analysis, ACS

$\text{MnO}_4\text{S} \cdot \text{H}_2\text{O}$

$\text{MnSO}_4 \cdot \text{H}_2\text{O}$

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** • Römp **8**, **2484** • ACS **XI** • BP.**2025** • USP **43** • Ph. Eur. **10.0** (2019) **11.0** (2023) • F.C.C **12 13** •

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 • (-) •

SPECIFICATIONS:

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

Maximum limit of impurities

Insoluble matter in H ₂ O	0,005 %
Reducing substance to KMnO ₄ (as O)	0,0005 %
Loss on ignition	10,0-12,0 %
Chloride (Cl)	0,005%
Heavy Metals (ICP-OES)	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	%