



PRODUCT CODE: 141362

Iron(II) Sulfate 7-hydrate (USP, BP, Ph. Eur.) pure, pharma grade

$\text{FeO}_4\text{S}\cdot 7\text{H}_2\text{O}$

$\text{FeSO}_4\cdot 7\text{H}_2\text{O}$

M.= 278,02

CAS [7782-63-0]

EINECS 231-753-5

TARIC 2833 29 80 80

SYNONYMS: Green Vitriol

PHYSICAL DATA: crystals, Green-bluish, Soluble in water 400 g/l at 20 °C Thermal decom. above 400 °C • D 1,897

• M.P.: 64 °C • pH3 - 4 •

BIBLIOGRAPHY: Merck Index **12**, 4.105 13, 4.091 Sax **FBO000** • Safety **2** , **2014 D** • Römp **8** , **1069** • Fieser **1393**
4237 5308 11276 • ACS **XI** • ISO 6353/3-1987R - 69 , 37 • **BP.2020** • USP **42** • Ph. Eur. **9.0** (2017) **10.0** (2020)

• F.C.C **10 11** •

HAZARDOUS: RTECS: NO 8510000 • LD L0 oral rbt 2.778 mg/kg • LD L0 oral rat 1.389 mg/kg • LD50 oral mus 1.520 mg/kg • LD50 ipr mus 245 mg/kg



H: H302 • H319 • H315 •

P: P264 • P270 • P280 • P301+P312 • P302+P352 • P501 • P305+P351+P338 • P321 • P330 • P332+P313 • P337+P313 • P362 •

SPECIFICATIONS:

Assay (Cerim.)

99,5-104,5 %

Identity :

Identity according to Pharmacopoeias:

passes test

pH of 5% solution 3,0-4,0

Maximum limit of impurities

Appearance of solution passes test
Insoluble matter in H₂O 0,01 %
Chloride (Cl) 0,02%
Phosphate (PO₄) 0,003 %
Residual solvents (Ph.Eur/USP) passes test
Fe(III) 0,3%

As 0,00015 %
Cr 0,0025 %
Cu 0,005 %
Hg 0,00015 %
Mg 0,025 %
Mn 0,1 %
Ni 0,002 %
Pb 0,00005 %
Zn 0,005 %

Elemental impurities (ICH Q3D):

Class 1

Cd 0,5 ppm
Pb 0,5 ppm
As 1,5 ppm
Hg 1,5 ppm

Class 2A

Co 5 ppm
V 10 ppm
Ni 20 ppm

Class 2B

Tl 50 ppm
Au 10 ppm
Pd 10 ppm
Ir 10 ppm
Os 10 ppm
Rh 10 ppm
Ru 10 ppm
Se 50 ppm
Ag 15 ppm
Pt 10 ppm

Class 3

Li 55 ppm
Sb 120 ppm
Ba 140 ppm
Mo 25 ppm
Cu 50 ppm
Sn 600 ppm
Cr 25 ppm

You must not use if it is recovered by yellow-brownish Ferric Sulphate, Basic

Ed.: 12 . Vig.: 14.06.2019 .

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