



**PRODUCT CODE: 141362**

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

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

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

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.**2018** • USP **41** • Ph. Eur. **8.0** (2014) **9.0** (2017)

• 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
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**Maximum limit of impurities**

Appearance of solution	passes test
Insoluble matter in H <sub>2</sub> O	0,01 %
Chloride (Cl)	0,02%
Phosphate (PO <sub>4</sub> )	0,003 %
Residual solvents (Ph.Eur/USP)	passes test
Fe(III)	0,3%
Heavy metals (as Pb)	0,005%

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

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