



PRODUCT CODE: 141787

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

$O_4SZn.7H_2O$

$ZnSO_4.7H_2O$

M.= 287,54

CAS [7446-20-0]

EINECS 231-793-3

TARIC 2833 29 20 00

SYNONYMS: White Vitriol

PHYSICAL DATA: Small crystals, White, Soluble in water 960 g/l at 20 °C Hygroscopic • D 1,957 • M.P.: 100 °C • pH4 - 6 •

BIBLIOGRAPHY: Merck Index **13**, 10.213 Sax **ZNJ000** • Safety **2** , **3632 B** • Römp **8** , **4713** • ACS **XI** • ISO 6353/3-1987R - 97 • BP.**2018** • USP **41** • Ph. Eur. **8.0** (2014) **9.0** (2017) • F.C.C **10 11** •

HAZARDOUS: C.E: 030-006-00-9 • RTECS: ZH 5300000 • LD L0 oral rbt 1.914 mg/kg • LD50 oral rat 2.150 mg/kg • LD50 ipr mus 75 mg/kg



H: H302 • H318 • H410 •

P: P264 • P270 • P273 • P280 • P301+P312 • P305+P351+P338 • P310 • P330 • P391 • P501 •

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

OBSERVATIONS: Not recommended in areas with a very hot climate •

SPECIFICATIONS:

Assay (Compl.)

99,0-104,0%

Identity :

Identity according to Pharmacopoeias:

passes test

pH of 5% solution	4,4-5,6
Maximum limit of impurities	
Appearance of solution	passes test
Acidity	passes test
Chloride (Cl)	0,03%
Nitrogen compounds (as N)	0,005%
Residual solvents (Ph.Eur/USP)	passes test
Alkalis and alkaline-earths	0,5%
As	0,0001 %
Ca	0,02 %
Fe	0,005 %
Pb	0,00005 %
Elemental impurities (ICH Q3D):	
Class 1	
Cd	0,5 ppm
Pb	0,5 ppm
As	1 ppm
Hg	1,5 ppm
Class 2A	
Co	5 ppm
V	10 ppm
Ni	20 ppm
Class 2B	
Tl	0,8 ppm
Au	10 ppm
Pd	10 ppm
Ir	10 ppm
Os	10 ppm
Rh	10 ppm
Ru	10 ppm
Se	15 ppm
Ag	15 ppm
Pt	10 ppm
Class 3	
Li	55 ppm
Sb	120 ppm
Ba	140 ppm
Mo	25 ppm
Cu	250 ppm
Sn	600 ppm
Cr	25 ppm