



PRODUCT CODE: 141644

di-Sodium tetra-Borate 10-hydrate (USP-NF, BP, Ph. Eur.) pure, pharma grade

$B_4Na_2O_7 \cdot 10H_2O$

$Na_2B_4O_7 \cdot 10H_2O$

M.= 381,37 CAS [1303-96-4] EINECS 215-540-4

TARIC 2840 19 90 00

SYNONYMS: Borax, Sodium Borate

PHYSICAL DATA: crystalline powder, White, Soluble in water 50 g/l at 20 C Thermal decom. above 100 C · D 1,73 · M.P.: 75 C · pH(40g/l)9 - 10 ·

BIBLIOGRAPHY: Merck Index **12**, 8.733 13, 8.662 Sax **SFF000** · Safety **2** , **3155 C** · Rmp **8** , **493** · Fieser **4461 15295** · ACS **XI** · ISO 6353/3-1987R - 61 , 27 · BP.**2020** · USP **-NF 37** · Ph. Eur. **9.0** (2017) **10.0** (2020) · Directive 96/77/EC ·

HAZARDOUS:RTECS: VZ 2275000 · TDLO oral rat 37.000 mg/kg · LD L0 oral man 709 mg/kg · LD50 oral mus 2.000 mg/kg · LD50 oral rat 2.660 mg/kg · LD50 ipr mus 2.711 mg/kg TLV-TWA 5 mg/m3 VLA-ED 5 mg/m3



H: H360FD ·

P: P201 · P202 · P281 · P308+P313 · P405 · P501 ·

SPECIFICATIONS:

Assay (Acidim.)	99,0-103,0%
Identity :	
Identity according to Pharmacopoeias:	passes test

pH of 4% solution 9,0-9,6

Maximum limit of impurities

Appearance of solution	passes test
Insoluble matter in H ₂ O	0,025 %
Chloride (Cl)	0,005%
Ammonium (NH ₄)	0,001%
Phosphate (PO ₄)	0,005 %
Sulfate (SO ₄)	0,005%
Residual solvents (Ph.Eur/USP)	passes test
Carbonate and Hydrogen Carbonate	passes test
Heavy metals (as Pb)	0,002%

Residual metals ICP: (according to EMEA/CHMP/SWP/4446/2000)

Class 1A (Pt, Pd)	10 ppm
Class 1B (Ir, Rh, Ru, Os)	10 ppm
Class 1C (Mo, Ni, Cr, V)	25 ppm
Class 2 (Cu, Mn)	250 ppm
Class 3 (Fe, Zn)	1.300 ppm

Ca 0,01 %