



**PRODUCT CODE: 141678**

**di-Sodium Hydrogen Phosphate 12-hydrate (USP, BP, Ph. Eur.) pure, pharma grade**

---

$\text{HNa}_2\text{O}_4\text{P}\cdot 12\text{H}_2\text{O}$

$\text{Na}_2\text{HPO}_4\cdot 12\text{H}_2\text{O}$

M.= 358,14

CAS [10039-32-4]

EINECS 231-448-7

TARIC 2835 22 00 00

**SYNONYMS:** Disodium Phosphate dodecahydrate, Sodium Phosphate di-Basic dodecahydrate, Disodium Phosphate dodecahydrate

**PHYSICAL DATA:** crystals, White, Soluble in water 218 g/l at 20 °C D 1,52 • M.P.: 34 °C • pH(5% solution)9,0 - 9,4 •

**BIBLIOGRAPHY:** Merck Index **12**, 8.805 13, 8.733 Römp **8** , **2743** • ISO 6353/2-1983R - 33 , 47 • **BP.2020** • **USP 42** • Ph. Eur. **9.0** (2017) **10.0** (2020) • **BOE 243**(8-10-2009) • Regulation (EU) n° 231/2012 •

**HAZARDOUS:** LD50 ipr mus 430 mg/kg

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

**SPECIFICATIONS:**

Assay (Acidim.) (calc. a.a.s)	98,5-100,5 %
Identity :	
Identity according to Pharmacopoeias:	passes test
pH of 5% solution	8,7-9,4

**Maximum limit of impurities**

Appearance of solution	passes test
Insoluble matter in in H2O	0,025%
Reducing substance to KMnO4	passes test

Loss on drying at 130°C	57-61 %
Chloride (Cl)	0,003%
Nitrogen compounds (as N)	0,003%
Sulfate (SO4)	0,01%
Residual solvents (Ph.Eur/USP)	passes test
Sodium di-Hydrogen Phosphate	2,5 %
Water (H2O)	57,0-61,0 %
As	0,0001 %
Fe	0,001 %
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	5 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