

**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

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SYNONYMS: Disodium Phosphate, Sodium Phosphate , secondary, Sodium Phosphate di-Basic**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.**2018** • USP **41** • Ph. Eur. **8.0** (2014) **9.0** (2017) • 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)	0,001%
Nitrogen compounds (as N)	0,003%
Sulfate (SO ₄)	0,01%
Residual solvents (Ph.Eur/USP)	passes test
Sodium di-Hydrogen Phosphate	passes test
Water (H ₂ O)	57,0-61,0 %
Heavy metals (as Pb)	0,001%
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