



PRODUCT CODE: 142507

di-Sodium Hydrogen Phosphate 2-hydrate (USP, BP, Ph. Eur.) pure, pharma grade

$\text{HNa}_2\text{O}_4\text{P}\cdot 2\text{H}_2\text{O}$

$\text{Na}_2\text{HPO}_4\cdot 2\text{H}_2\text{O}$

M.= 177,99

CAS [10028-24-7]

EINECS 231-448-7

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SYNONYMS: Sodium mono-Hydrogen Phosphate, Sodium Phosphatessecondary

PHYSICAL DATA: crystals, White, Soluble in water 93 g/l at 20 °C Thermal decom. above 95 °C • D 20/4 2,1 • M.P.: 95 °C • pH(5% solution)9,1 - 9,4 •

BIBLIOGRAPHY: Merck Index **12**, 8.805 13, 8.733 Römp **8**, **2743** • BP.**2020** • USP **42** • Ph. Eur. **9.0** (2017) **10.0** (2020) • F.C.C **10 11** • Royal Decree **I1088** • BOE **243**(8-10-2009) • Regulation (EU) n° 231/2012 •

HAZARDOUS:

SPECIFICATIONS:

Assay (Acidim.) (calc. a.a.s)	98,0-100,5%
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 H ₂ O	0,025 %
Reducing substances	passes test
Loss on drying at 130°C	19,5-21,0 %
Chloride (Cl)	0,003%

Nitrogen compounds (as N)	0,003%
Sulfate (SO4)	0,01%
Residual solvents (Ph.Eur.)	passes test
Sodium di-Hydrogen Phosphate	passes test
As	0,0001 %
Fe	0,002 %
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