



PRODUCT CODE: 141677

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

$H_2NaO_4P \cdot 2H_2O$

$NaH_2PO_4 \cdot 2H_2O$

M.= 156,01

CAS [13472-35-0]

EINECS 231-449-2

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SYNONYMS: Sodium Phosphate , primary, Sodium Phosphate Acid, Sodium Phosphate mono-Basic

PHYSICAL DATA: Crystalline powder or Crystals, White, Soluble in water, practically insoluble in ethanol 96%. • D 1,91 • M.P.: 60 °C • pH4,2 - 4,5 •

BIBLIOGRAPHY: Merck Index **12**, 8.806 13, 8.734 Römp **8** , **2743** • BP.**2021** • USP **43** • Ph. Eur. **9.0** (2017) **10.0** (2020) • F.C.C **12 13** • BOE **243**(8-10-2009) • Regulation (EU) n° 231/2012 •

HAZARDOUS: RTECS: WA 1900000 • LD50 oral rat 8.290 mg/kg •

SPECIFICATIONS:

Assay (Acidim.) (calc. a.a.s)	99-100,5%
Identity :	
Identity according to Pharmacopoeias:	passes test
pH of 5% solution	4,2-4,5

Maximum limit of impurities

Appearance of solution	passes test
Insoluble matter in H ₂ O	0,005 %
Reducing substance to KMnO ₄	passes test
Loss on drying at 130°C	21,5-24,0 %
Chloride (Cl)	0,005%
Sulfate (SO ₄)	0,003%
Residual solvents (Ph.Eur/USP)	passes test

Nitrogen Compounds (as N)	0,001 %
Aluminium, Calcium and related elements	passes test

As	0,00015 %
Ca	0,005 %
Mg	0,005 %
Fe	0,0005 %

Elemental impurities (ICH Q3D):

Class 1

Cd	0,5 ppm
Pb	0,5 ppm
As	1,5 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