



PRODUCT CODE: 141965

Sodium di-Hydrogen Phosphate 1-hydrate (USP, BP) pure, pharma grade



M.= 137,99

CAS [10049-21-5]

EINECS 231-449-2

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

PHYSICAL DATA: crystals, White, Soluble in water 1.103 g/l at 20 °C Thermal decom. ~ 100 °C • D 2,04 • pH4,3 - 4,5 •

BIBLIOGRAPHY: Merck Index **13**, 8.734 Safety **2** , **3152 C** • Römp **8** , **2743** • Fieser **1395** • ACS **XI** • BP.**2018** • USP **42** • F.C.C **10 11** • 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)	98,0-100,5%
Identity :	
Identity according to Pharmacopoeias:	passes test
pH of 5% solution	4,2-4,5

Maximum limit of impurities

Appearance and colour 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	11,5-14,5 %
Chloride (Cl)	0,014%
Sulfate (SO ₄)	0,03%

Residual solvents (Ph.Eur/USP)	passes test
Aluminium, Calcium and related elements.	passes test
Water (H2O)	10,0 -15,0 %
As	0,00015 %
Fe	0,001 %
Elemental impurities (ICH Q3D):	
Class 1	
Cd	0,5 ppm
Pb	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