$NaZn[PO_4][H_2O]$	*hP*126	(178) $P6_122 - c^8b^4a$

$NaZnPO_4 \cdot H_2O$ [1]
Structural features: PO_4 and ZnO_4 tetrahedra share vertices to form a 3D-framework; Na and H_2O in cavities interconnected via 6- and 8-rings (partial disorder).

Harrison W.T.A. et al. (1996) [1]
$H_{1.52}Na_{0.51}O_{4.76}PZn$
a = 1.04797, c = 1.5089 nm, c/a = 1.44, V = 1.4351 nm^3, Z = 12

site	Wyck.	sym.	*x*	*y*	*z*	occ.	atomic environment
O1	12*c*	1	0.2466	0.0485	0.38517		non-colinear PZn
Na2	12*c*	1	0.336	0.602	0.09833	0.24	
P3	12*c*	1	0.4088	0.1676	0.39243		tetrahedron O_4
(OH_2)4	12*c*	1	0.41	0.108	0.00567	0.29	
(OH_2)5	12*c*	1	0.425	0.178	0.04967	0.3	
O6	12*c*	1	0.429	0.311	0.35253		non-colinear PZn
O7	12*c*	1	0.4597	0.195	0.48943		single atom P
O8	12*c*	1	0.511	0.127	0.34233		non-colinear PZn
(OH_2)9	6*b*	..2	0.035	0.07	$^1/_4$	0.1	non-colinear $(OH_2)_2$
Zn10	6*b*	..2	0.4929	0.9858	$^1/_4$		tetrahedron O_4
Na11	6*b*	..2	0.668	0.336	$^1/_4$	0.53	
Zn12	6*b*	..2	0.8413	0.6827	$^1/_4$		tetrahedron O_4
(OH_2)13	6*a*	.2.	0.076	0	0	0.24	non-colinear $(OH_2)_2$

Experimental: single crystal, diffractometer, X-rays, wR = 0.052, T = 298 K

Remarks: Part of Na and H_2O not located. Short interatomic distances for partly occupied site(s). Hydrogen atoms are not taken into consideration for Pearson symbol, Wyckoff sequence and atomic environments. In table 1 of [1] the *y*-coordinate of former O(5) is misprinted as 0.033 instead of 0.035 (agreement with Wyckoff position 6*b*).

References: [1] Harrison W.T.A., Gier T.E., Stucky G.D., Broach R.W., Bedard R.A. (1996), Chem. Mater. 8, 145-151.