$Zn_{5.5}[PHO_3]_4[OH]_3$	*hP*50	(186) $P6_3mc$ – d^2c^4b

$Zn_{11}(HPO_3)_8(OH)_6$ [1]
Structural features: Columns of edge- and face-linked $Zn(O_4[OH]_2)$ octahedra are interconnected via common vertices and $P(HO_3)$ tetrahedra to form a 3D-framework with large channels parallel to [001].

Marcos M.D. et al. (1993) [1]
$H_7O_{15}P_4Zn_{5.50}$
a = 1.2872, c = 0.49772 nm, c/a = 0.387, V = 0.7142 nm^3, Z = 2

site	Wyck.	sym.	x	y	z	occ.	atomic environment
O1	12*d*	1	0.0736	0.3437	0.1101		single atom P
Zn2	12*d*	1	0.42918	0.08062	0.2538	0.917	octahedron O_6
P3	6*c*	.*m*.	0.16139	0.83861	0.2728		non-coplanar triangle O_3
O4	6*c*	.*m*.	0.4747	0.5253	0.452		non-coplanar square Zn_4
O5	6*c*	.*m*.	0.6013	0.3987	0.4148		single atom P
O6	6*c*	.*m*.	0.8019	0.1981	0.0358		single atom P
P7	2*b*	3*m*.	$^1/_3$	$^2/_3$	0.0		non-coplanar triangle O_3
H8	6*c*	.*m*.	0.099	0.901	0.3238		
H9	6*c*	.*m*.	0.449	0.551	0.3138		
H10	2*b*	3*m*.	$^1/_3$	$^2/_3$	0.2838		

Transformation from published data: -*x*,-*y*,-*z*; origin shift 0 0 0.2462
Experimental: single crystal, diffractometer, X-rays, R = 0.030, T = 293 K

Remarks: Space group (194) $P6_3/mmc$ was tested and rejected. Hydrogen atoms are not taken into consideration for Pearson symbol, Wyckoff sequence and atomic environments.

References: [1] Marcos M.D., Amoros P., Le Bail A. (1993), J. Solid State Chem. 107, 250-257.