$Zn_7[VO_4]_3[SO_4][OH]_3$	*hP*60	(186) $P6_3mc$ – $d^2c^5b^2a$

$Zn_7(VO_4)_3(SO_4)(OH)_3$ [1]
Structural features: Columns of edge- and face-linked $Zn(O_4[OH]_2)$ octahedra are interconnected via common vertices, VO_4 and SO_4 tetrahedra to form a 3D-framework; additional Zn in channels parallel to [001] (infinite columns of face-linked ZnO_6 octahedra). Ordering variant of $Ni_{6.58}H_{1.84}(AsO_4)_4(OH)_3$.

Kato K. et al. (1998) [1]
$H_3O_{19}SV_3Zn_7$
$a = 1.2813$, $c = 0.51425$ nm, $c/a = 0.401$, $V = 0.7311$ nm^3, $Z = 2$

site	Wyck.	sym.	*x*	*y*	*z*	occ.	atomic environment
O1	12*d*	1	0.0676	0.346	0.4748		non-coplanar triangle VZn_2
Zn2	12*d*	1	0.42659	0.08017	0.3217		octahedron O_6
O3	6*c*	.*m*.	0.0757	0.9243	0.2507		coplanar triangle VZn_2
V4	6*c*	.*m*.	0.15129	0.84871	0.296		tetrahedron O_4
O5	6*c*	.*m*.	0.191	0.809	0.0067		non-coplanar triangle VZn_2
O6	6*c*	.*m*.	0.472	0.528	0.1067		non-colinear Zn_2
O7	6*c*	.*m*.	0.6033	0.3967	0.1797		single atom S
O8	2*b*	3*m*.	$^1/_3$	$^2/_3$	0.2977		single atom S
S9	2*b*	3*m*.	$^1/_3$	$^2/_3$	0.5738		tetrahedron O_4
Zn10	2*a*	3*m*.	0	0	0.0		octahedron O_6
H11	6*c*	.*m*.	0.433	0.567	0.1657		

Transformation from published data: *-x*,*-y*,*-z*; origin shift 0 0 0.1783
Experimental: single crystal, diffractometer, X-rays, R = 0.041, T = 293 K

Remarks: Hydrogen atoms are not taken into consideration for Pearson symbol, Wyckoff sequence and atomic environments.

References: [1] Kato K., Kanke Y., Oka Y., Yao T. (1998), Z. Kristallogr., New Cryst. Struct. 213, 26.