$Zn_3V_2O_8[H_2O]_3$	*hP*16	(174) *P*-6 – lkihga

$Zn_3(VO_4)_2 \cdot 3H_2O$ [1]
Structural features: Infinite slabs of edge-linked ZnO_6 trigonal prisms are interconnected via units of two vertex-linked VO_4 tetrahedra to form a 3D-framework.

Hoyos D.A. et al. (2001) [1]
$H_4O_{11}V_2Zn_3$
$a = 0.60788$, $c = 0.71827$ nm, $c/a = 1.182$, $V = 0.2299$ nm^3, $Z = 1$

site	Wyck.	sym.	*x*	*y*	*z*	occ.	atomic environment
O1	6*l*	1	0.11923	0.30737	0.3241		single atom V
Zn2	3*k*	*m*..	0.00323	0.50917	$^1/_2$		trigonal prism O_6
O3	2*i*	3..	$^2/_3$	$^1/_3$	0.3743		4-vertex polyhedron OZn_3
$(OH_2)4$	2*h*	3..	$^1/_3$	$^2/_3$	0.2		non-coplanar triangle O_3
V5	2*g*	3..	0	0	0.2542		tetrahedron O_4
O6	1*a*	-6..	0	0	0		colinear V_2

Transformation from published data: -*x*,-*y*,-*z*; origin shift $^2/_3$ $^1/_3$ $^1/_2$
Experimental: powder, diffractometer, X-rays, $R_p = 0.057$, T = 293 K

Remarks: Part of H not located. Refinement considering site $(OH_2)4$ in Wyckoff position 1*b* with occupancy 1.93(3); the authors state that the site is displaced into Wyckoff position 2*h* (published 2*g*) to accommodate 2 H_2O per unit cell. We assigned an arbitrary value to the *z*-coordinate of $(OH_2)4$. Hydrogen atoms are not taken into consideration for Pearson symbol, Wyckoff sequence and atomic environments. Ambiguous data: the chemical formula is written as $Zn_3(VO_4)_2 \cdot 3H_2O$, however, the structure does not contain VO_4 units.

References: [1] Hoyos D.A., Echavarria A., Saldarriaga C. (2001), J. Mater. Sci. 36, 5515-5518.