$H_{1.5}Na_{0.5}Mo_{2.67}O_9[H_2O]$	*hP*34	(176) $P6_3/m$ – h^5e

$NaH_3Mo_{5.33}O_{18}\cdot 2H_2O$ [1], HMB (hexagonal molybdenum bronze); $AgMo_{5.5}O_{17.5}H\cdot 1.1H_2O$ [2]
Structural features: Double infinite chains of edge-linked MoO_6 octahedra (partial vacancies ignored) share vertices to form a 3D-framework; Na (displaced from the axis) and H_2O in channels parallel to [001] (partial disorder).

McCarron E.M. III et al. (1987) [1]
$H_{1.76}Mo_{2.66}Na_{0.46}O_{9.88}$
$a = 1.0595$, $c = 0.37224$ nm, $c/a = 0.351$, $V = 0.3619$ nm^3, $Z = 2$

site	Wyck.	sym.	*x*	*y*	*z*	occ.	atomic environment
O1	6*h*	*m*..	0.0109	0.2765	$^1/_4$		single atom Mo
Mo2	6*h*	*m*..	0.105	0.4616	$^1/_4$	0.888	octahedron O_6
Na3	6*h*	*m*..	0.1181	0.1152	$^1/_4$	0.152	
O4	6*h*	*m*..	0.2801	0.4966	$^1/_4$		single atom Mo
O5	6*h*	*m*..	0.5798	0.0805	$^1/_4$		non-coplanar triangle Mo_3
$(OH_2)6$	4*e*	3..	0	0	0.1421	0.441	

Experimental: single crystal, diffractometer, X-rays, R = 0.070

Remarks: General formula $AH_{6x-1}Mo_{6-x}O_{18}$, where A = $Na\cdot 2H_2O$. H not belonging to H_2O was 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.

References: [1] McCarron E.M. III, Thomas D.M., Calabrese J.C. (1987), Inorg. Chem. 26, 370-373. [2] Guo J., Zavalij P., Whittingham M.S. (1995), J. Solid State Chem. 117, 323-332.