

RbNa ₃ [MoO ₄] ₂ [H ₂ O] ₉	<i>hP46</i>	(176) <i>P6₃/m – i²h²f²a</i>
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Na₃Rb(MoO₄)₂·9H₂O [1]

Structural features: Na₃(MoO₄)₂(H₂O)₉ units (three face-linked Na(O₂[OH₂]₄) octahedra sharing vertices with two MoO₄ tetrahedra) in a Mg-type (h.c.p.) arrangement.

Klevtsova R.F. et al. (1990) [1]

H₁₈Mo₂Na₃O₁₇Rb

a = 0.9648, *c* = 1.2157 nm, *c/a* = 1.260, *V* = 0.9800 nm³, *Z* = 2

site	Wyck.	sym.	<i>x</i>	<i>y</i>	<i>z</i>	occ.	atomic environment
O1	12 <i>i</i>	1	0.2419	0.2684	0.1135		single atom Na
O2	12 <i>i</i>	1	0.4753	0.1886	0.0708		single atom Mo
O3	6 <i>h</i>	<i>m</i> ..	0.0213	0.4145	¹ / ₄		non-colinear Na ₂
Na4	6 <i>h</i>	<i>m</i> ..	0.2894	0.4567	¹ / ₄		octahedron O ₆
O5	4 <i>f</i>	3..	¹ / ₃	² / ₃	0.1205		single atom Mo
Mo6	4 <i>f</i>	3..	¹ / ₃	² / ₃	0.5239		tetrahedron O ₄
Rb7	2 <i>a</i>	-6..	0	0	¹ / ₄		trigonal prism O ₆
H8	12 <i>i</i>	1	0.256	0.337	0.052		
H9	12 <i>i</i>	1	0.321	0.242	0.099		
H10	12 <i>i</i>	1	0.42	0.049	0.191		

Transformation from published data: origin shift 0 0 ¹/₂

Experimental: single crystal, diffractometer, X-rays, R = 0.043

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

References: [1] Klevtsova R.F., Glinskaya L.A., Perepelitsa A.P., Ishchenko V.N., Klevtsov P.V. (1990), Sov. Phys. Crystallogr. 35, 643-646 (Kristallografiya 35, 1094-1098).