

$\text{Na}_6\text{P}_6\text{TeO}_{18}[\text{OH}]_6[\text{H}_2\text{O}]_6$	<i>hP86</i>	(176) $P6_3/m - i^5h^4b$
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$\text{Na}_6\text{TeP}_6\text{O}_{18}(\text{OH})_6 \cdot 6\text{H}_2\text{O}$ [2]

Structural features: Slabs containing $\text{Te}(\text{OH})_6$ octahedra and rings of three vertex-linked PO_4 tetrahedra alternate with layers containing Na and H_2O .

Boudjada N. et al. (1985) [1]

$\text{H}_{18}\text{Na}_6\text{O}_{30}\text{P}_6\text{Te}$

$a = 1.167$, $c = 1.212$ nm, $c/a = 1.039$, $V = 1.4295$ nm³, $Z = 2$

site	Wyck.	sym.	<i>x</i>	<i>y</i>	<i>z</i>	occ.	atomic environment
O1	12 <i>i</i>	1	0.0017	0.1367	0.0932		single atom Te
O2	12 <i>i</i>	1	0.1914	0.5947	0.0263		non-colinear P ₂
O3	12 <i>i</i>	1	0.1955	0.3878	0.0696		single atom P
O4	12 <i>i</i>	1	0.4808	0.2382	0.128		single atom P
P5	12 <i>i</i>	1	0.502	0.2497	0.007		tetrahedron O ₄
O6	6 <i>h</i>	<i>m..</i>	0.0378	0.3833	¹ / ₄		non-colinear Na ₂
Na7	6 <i>h</i>	<i>m..</i>	0.2823	0.1291	¹ / ₄		octahedron O ₆
O8	6 <i>h</i>	<i>m..</i>	0.3264	0.3509	¹ / ₄		non-colinear Na ₂
Na9	6 <i>h</i>	<i>m..</i>	0.5709	0.131	¹ / ₄		trigonal prism O ₆
Te10	2 <i>b</i>	-3.. <i></i>	0	0	0		octahedron O ₆
H11	12 <i>i</i>	1	0.0641	0.2105	0.0732		
H12	12 <i>i</i>	1	0.0939	0.3992	0.1874		
H13	12 <i>i</i>	1	0.2881	0.3716	0.1865		

Transformation from published data: $y, x, -z$; origin shift 0 0 ¹/₂

Experimental: single crystal, diffractometer, neutrons, $R = 0.054$

Remarks: Cell parameters from [2]. Hydrogen atoms are not taken into consideration for Pearson symbol, Wyckoff sequence and atomic environments.

References: [1] Boudjada N., Lambert Andron B., Boucherle J.X. (1985), *Z. Kristallogr.* 172, 45-53. [2] Boudjada N., Averbuch Pouchot M.T., Durif A. (1981), *Acta Crystallogr. B* 37, 645-647.