

$\text{Na}_3\text{La}_9[\text{BO}_3]_8\text{O}_3$	<i>hP47</i>	(189) <i>P-62m</i> – $\text{lji}^2\text{hg}^2\text{fec}$
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$\text{Na}_3\text{La}_9(\text{BO}_3)_8\text{O}_3$ [1]

Structural features: BO_3 trigonal units and rings of three vertex-linked distorted OLa_4 tetrahedra.

Gravereau P. et al. (2002) [1]

$\text{B}_8\text{La}_9\text{Na}_3\text{O}_{27}$

$a = 0.89033$, $c = 0.87131$ nm, $c/a = 0.979$, $V = 0.5981$ nm³, $Z = 1$

site	Wyck.	sym.	<i>x</i>	<i>y</i>	<i>z</i>	occ.	atomic environment
O1	12 <i>l</i>	1	0.1795	0.5129	0.3171		single atom B
O2	6 <i>j</i>	<i>m</i> ..	0.3223	0.5047	0		single atom B
O3	6 <i>i</i>	.. <i>m</i>	0.1558	0	0.212		single atom B
La4	6 <i>i</i>	.. <i>m</i>	0.65194	0	0.23333		tricapped trigonal prism O ₉
B5	4 <i>h</i>	3.. <i>i</i>	$\frac{1}{3}$	$\frac{2}{3}$	0.3234		non-coplanar triangle O ₃
La6	3 <i>g</i>	<i>m2m</i>	0.28323	0	$\frac{1}{2}$		square antiprism O ₈
O7	3 <i>g</i>	<i>m2m</i>	0.7428	0	$\frac{1}{2}$		tetrahedron La ₄
Na8	3 <i>f</i>	<i>m2m</i>	0.3366	0	0		tetrahedron O ₄
B9	2 <i>e</i>	3.. <i>m</i>	0	0	0.2084		non-coplanar triangle O ₃
B10	2 <i>c</i>	-6.. <i>i</i>	$\frac{1}{3}$	$\frac{2}{3}$	0		coplanar triangle O ₃

Transformation from published data: -*x*, -*y*, -*z*

Experimental: single crystal, diffractometer, X-rays, R = 0.015, T = 293 K

References: [1] Gravereau P., Chaminade J.P., Pechev S., Nikolov V., Ivanova D., Peshev P. (2002), Solid State Sci. 4, 993-998.