

$\text{K}_{6.8}\text{Na}_{4.7}(\text{Ga}_{0.24}\text{Si}_{0.76})_{48}\text{O}_{96}$ *hP*156(186) $P6_3mc - d^{10}c^6$ **K_{6.8}Na_{4.7}Ga_{11.5}Si_{36.5}O₉₆** [1], zeolite ETRStructural features: (Si,Ga)O₄ tetrahedra share vertices to form an ETR-type zeolite framework with channels delimited by 18-rings parallel to [001]; K above 6- and 8-rings.

Strohmaier K.G., Vaughan D.E.W. (2003) [1]

 $\text{Ga}_{11.52}\text{K}_{8.88}\text{O}_{96}\text{Si}_{36.48}$ $a = 2.103$, $c = 0.853$ nm, $c/a = 0.406$, $V = 3.2671$ nm³, $Z = 1$

site	Wyck.	sym.	<i>x</i>	<i>y</i>	<i>z</i>	occ.	atomic environment
O1	12 <i>d</i>	1	0.0422	0.3263	0.193		non-colinear Si ₂
M2	12 <i>d</i>	1	0.1059	0.3608	0.3325		tetrahedron O ₄
O3	12 <i>d</i>	1	0.1424	0.4515	0.3347		non-colinear Si ₂
O4	12 <i>d</i>	1	0.1479	0.4854	0.0196		non-colinear Si ₂
M5	12 <i>d</i>	1	0.1847	0.5175	0.198		tetrahedron O ₄
O6	12 <i>d</i>	1	0.3289	0.0736	0.0113		non-colinear Si ₂
M7	12 <i>d</i>	1	0.3584	0.028	0.1203		tetrahedron O ₄
O8	12 <i>d</i>	1	0.405	0.0002	0.01		non-colinear Si ₂
O9	12 <i>d</i>	1	0.4156	0.0843	0.256		non-colinear Si ₂
M10	12 <i>d</i>	1	0.4597	0.074	0.4065		tetrahedron O ₄
O11	6 <i>c</i>	. <i>m</i> .	0.1694	0.8306	0.287		non-colinear Si ₂
O12	6 <i>c</i>	. <i>m</i> .	0.2747	0.7253	0.203		non-colinear Si ₂
O13	6 <i>c</i>	. <i>m</i> .	0.4161	0.5839	0.25		non-colinear Si ₂
O14	6 <i>c</i>	. <i>m</i> .	0.5342	0.4658	0.358		non-colinear Si ₂
K15	6 <i>c</i>	. <i>m</i> .	0.5449	0.4551	0.0	0.62	non-coplanar triangle O ₃
K16	6 <i>c</i>	. <i>m</i> .	0.8078	0.1922	0.309	0.86	non-colinear O ₂

M2 = 0.76Si + 0.24Ga; M5 = 0.76Si + 0.24Ga; M7 = 0.76Si + 0.24Ga; M10 = 0.76Si + 0.24Ga

Transformation from published data: -*x*, -*y*, -*z*; origin shift 0 0 0.651Experimental: powder, diffractometer, X-rays, synchrotron, wR_p = 0.089

Remarks: Na not located, refinement using f(K) for non-framework sites.

References: [1] Strohmaier K.G., Vaughan D.E.W. (2003), J. Am. Chem. Soc. 125, 16035-16039.