Crystal Data: Monoclinic. *Point Group*: 2/*m*. As acicular crystals to ~200 μm.

Physical Properties: *Cleavage*: Good on {110}. *Tenacity*: n.d. *Fracture*: n.d. Hardness = n.d. D(meas.) = n.d. D(calc.) = 3.146 Nonfluorescent.

Optical Properties: Transparent. *Color*: Pale yellow to colorless. *Streak*: White. *Luster*: Vitreous. *Optical Class*: Biaxial (-). α = 1.674(2) β = 1.688(2) γ = 1.698(2) 2V(meas.) = 79(1)° 2V(calc.) = 79.8° *Orientation*: $X \wedge a$ = 17° (in β obtuse), $Y \parallel b$, $Z \wedge c$ = 3° (in β acute). Non-pleochroic.

Cell Data: *Space Group*: *C*2/*m*. a = 9.937(1) b = 18.010(2) c = 5.2808(5) β = 104.955(2)° Z = 2

X-Ray Diffraction Pattern: Calculated pattern.
2.703 (100), 3.380 (87), 2.541 (80), 3.151 (79), 3.284 (68), 8.472 (59), 2.587 (52)

Chemistry:

	(1)	(2)
SiO_2	53.48	56.16
TiO_2	7.30	9.33
Al_2O_3	0.51	
Cr_2O_3	0.04	
V_2O_3	0.08	
Fe_2O_3	[2.99]	
FeO	[1.29]	
MgO	17.97	18.83
MnO	0.10	
NiO	0.09	
ZnO	0.003	
CaO	6.01	6.55
Na_2O	4.20	3.62
K_2O	4.51	5.50
F	1.03	
-O = F	0.43	
Total	99.17	100.00

(1) Zirkle Mesa, Leucite Hills, near Superior, Wyoming, USA; average electron microprobe and FTIR spectroscopic analyses, Fe^{3+}/Fe^{2+} calculated from total FeO = 3.99; corresponds to $^{A}(K_{0.84}Na_{0.16})_{\Sigma=1.00}{}^{B}(Ca_{0.93}Na_{1.02}Mg_{0.04}Mn^{2+}_{0.01})_{\Sigma=2.00}{}^{C}(Mg_{3.85}Fe^{2+}_{0.16}Ni_{0.01}Fe^{3+}_{0.33}V^{3+}_{0.01}Ti_{0.65})_{\Sigma=5.01}{}^{T}(Si_{7.76}Al_{0.09}Ti_{0.15})_{\Sigma=8.00}O_{22}{}^{W}[O_{1.53}F_{0.47}]_{\Sigma=2.00}$. (2) $K(NaCa)(Mg_4Ti)Si_8O_{22}O_2$.

Mineral Group: Amphibole supergroup, sodium-calcium subgroup, oxo group.

Occurrence: Derived from potassic richterite via the coupled exchange $^{C}Mg_{-1}{}^{W}OH^{-}_{-2}{}^{C}Ti^{4+}_{1}{}^{W}O^{2-}_{2}$. In a specimen of leucite-lava.

Association: Leucite, amphibole.

Distribution From Zirkle Mesa, Leucite Hills, near Superior, Wyoming, USA.

Name: Honors *Jean-Louis* Robert (1948-2017) for contributions to the crystal-chemical characterization of micas and amphiboles, with a particular focus on natural and synthetic richterites with significant Ti content. The prefix indicates dominant K in the *A* site.

Type Material: Museum of Mineralogy, University of Pavia, Italy (2018-01).

References: (1) Oberti, R., M. Boiocchi, F.C. Hawthorne, G. Della Ventura, and G. Färber (2019) Potassic-jeanlouisite from Leucite Hill, Wyoming, USA, ideally $K(NaCa)(Mg_4Ti)Si_8O_{22}O_2$: the first species of oxo amphibole in the sodium-calcium subgroup. Mineral. Mag., 83, 587-593.