

Crystal Data: Orthorhombic, pseudohexagonal. *Point Group:* $2/m\ 2/m\ 2/m$. As stout pseudohexagonal prisms, showing {100}, {010}, and {011}, to 3.7 cm; flattened on {100} and lightly striated on {011}.

Physical Properties: *Cleavage:* {100} and {010}, perfect. Hardness = ~6 D(meas.) = 2.79 D(calc.) = 2.80 Fluoresces light yellow under SW UV.

Optical Properties: Translucent. *Color:* Colorless to pink, cream, or white, commonly zoned. *Streak:* White. *Luster:* Vitreous, pearly on {100}.

Optical Class: Biaxial (-); almost isotropic. *Orientation:* $X = a; Y = b; Z = c$.

Dispersion: $r > v$, very weak. $\alpha = 1.582(3)$ $\beta = 1.584(3)$ $\gamma = 1.584(3)$ $2V(\text{meas.}) = \sim 0^\circ$

Cell Data: *Space Group:* $Cmca$. $a = 14.330(2)$ $b = 17.354(2)$ $c = 10.164(2)$ $Z = 8$

X-ray Powder Pattern: Washington Pass, Washington, USA.

4.850 (100), 3.145 (85), 7.190 (78), 4.336 (78), 3.480 (75), 2.665 (63), 4.374 (47)

Chemistry:	(1)
SiO ₂	68.24
TiO ₂	0.75
ZrO ₂	21.84
HfO ₂	0.50
Li ₂ O	2.8
Na ₂ O	5.9
Total	100.0

(1) Washington Pass, Washington, USA; by electron microprobe, Li by flame photometry; corresponds to Na_{1.01}Li_{0.99}Zr_{1.00}Si_{6.00}O₁₅.

Occurrence: Rarely in miarolitic cavities in a riebeckite granite (Washington Pass, Washington, USA).

Association: Quartz, microcline, aegirine, riebeckite, astrophyllite, zircon, elpidite.

Distribution: From Kangaroo Ridge, near Washington Pass, Okanogan Co., Washington, USA. In the Dara-i-Pioz massif, Alai Range, Tien Shan, Tajikistan.

Name: For Jack Zektzer (1936–), of Seattle, Washington, USA, who presented the mineral for study.

Type Material: Canadian Geological Survey, Ottawa; Royal Ontario Museum, Toronto, Canada, M34553; The Natural History Museum, London, England, 1976,423; Harvard University, Cambridge, Massachusetts, 116456; National Museum of Natural History, Washington, D.C., USA, 136030.

References: (1) Dunn, P.J., R.C. Rouse, B. Cannon, and J.A. Nelen (1977) Zektzerite: a new lithium sodium zirconium silicate related to tuhualite and the osumilite group. *Amer. Mineral.*, 62, 416–420. (2) Ghose, S. and C. Wan (1978) Zektzerite, NaLiZrSi₆O₁₅: a silicate with six-tetrahedral-repeat double chains. *Amer. Mineral.*, 63, 304–310.