

**Crystal Data:** Monoclinic. *Point Group:* 2/*m*. As equant to short prismatic grains, subhedral to anhedral, to 6 mm.

**Physical Properties:** *Cleavage:* Perfect on {010} and {001} intersecting at 90°, with a third poor cleavage at a high angle to the other two. *Hardness* = ~4 *D*(meas.) = 3.14(2) for impure material. *D*(calc.) = 3.10

**Optical Properties:** Transparent to translucent. *Color:* White to colorless; colorless in thin section. *Streak:* White. *Luster:* Subvitreous, pearly on cleavages.

*Optical Class:* Biaxial (-). *Orientation:* *X* = *b*; *Y* ∧ *a* = 6°; *Z* ∧ *c* = 10.5°. *Dispersion:* *r* > *v*, distinct. *α* = 1.574(2) *β* = 1.587(2) *γ* = 1.599(2) 2*V*(meas.) = 88(5)° 2*V*(calc.) = 87°42'

**Cell Data:** *Space Group:* *P*2<sub>1</sub>/*a*. *a* = 8.460(5) *b* = 10.622(6) *c* = 7.837(4)  
*β* = 94°32(8)' *Z* = 4

**X-ray Powder Pattern:** Rush Creek area, California, USA.  
3.84 (100), 6.36 (45), 5.34 (45), 3.01 (40), 6.7 (30), 3.94 (30), 3.66 (30)

**Chemistry:**

	(1)
SiO <sub>2</sub>	35.2
TiO <sub>2</sub>	0.01
Al <sub>2</sub> O <sub>3</sub>	0.05
FeO	< 0.01
MnO	< 0.002
MgO	< 0.05
CaO	0.11
SrO	< 0.05
BaO	47.7
K <sub>2</sub> O	< 0.1
LOI	16.7
Total	[100.0]

(1) Rush Creek area, California, USA; by D-C arc spectrography, loss on ignition taken as H<sub>2</sub>O; stated to be recalculated to 100.0%; corresponds to (Ba<sub>1.03</sub>K<sub>0.01</sub>Ca<sub>0.01</sub>)<sub>Σ=1.05</sub>Si<sub>1.95</sub>O<sub>3.95</sub>(OH)<sub>2</sub>•2.08H<sub>2</sub>O.

**Occurrence:** In veins cutting sanbornite-quartz-bearing gneissic metamorphic rocks.

**Association:** Macdonaldite, "opal," witherite, sanbornite, quartz (Rush Creek area, California, USA).

**Distribution:** In the USA, in California, from the [Esquire No. 1 claim,] Rush Creek area, Fresno Co., in Chickencoop Canyon, Tulare Co., and on Trumbull Peak, near Incline, Mariposa Co.

**Name:** For Konrad Bates Krauskopf (1910–), Professor of Geochemistry, Stanford University, Palo Alto, California, USA.

**Type Material:** n.d.

**References:** (1) Alfors, J.T., M.C. Stinson, R.A. Matthews, and A. Pabst (1965) Seven new barium minerals from eastern Fresno County, California. *Amer. Mineral.*, 50, 314–340.

(2) Coda, A., A. Dal Negro, and G. Rossi (1967) The crystal structure of krauskopfite. *Atti Rend. Accad. Lincei*, 42(6), 859–873. (3) (1968) *Chem. Abs.*, 69, 46894 (abs. ref. 2).

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