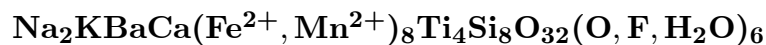


Jinshajiangite

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Crystal Data: Monoclinic. *Point Group:* $2/m$, m , or 2 . As tabular crystals, up to 2 cm.**Physical Properties:** *Cleavage:* Perfect on $\{010\}$ and $\{100\}$. *Fracture:* Uneven. Hardness = n.d. VHN = 430 D(meas.) = 3.61 D(calc.) = 3.56**Optical Properties:** Semitransparent. *Color:* Blackish red, brownish red, golden red. *Streak:* Light yellow. *Luster:* Vitreous. *Optical Class:* Biaxial (+). *Pleochroism:* Strong; X = light golden yellow; Y = brownish yellow; Z = brownish red. *Orientation:* $X \wedge c = 13^\circ$. *Dispersion:* $r < v$. *Absorption:* $X = Y > Z$. $\alpha = 1.729$ $\beta = 1.802$ $\gamma = 1.852$ $2V(\text{meas.}) = 72^\circ$ $2V(\text{calc.}) = 76^\circ$ **Cell Data:** *Space Group:* $C2/m$, Cm , or $C2$. $a = 10.732$ $b = 13.847$ $c = 20.817$
 $\beta = 95^\circ 3'$ $Z = 2$ **X-ray Powder Pattern:** Near the Jinshajiang River, China. 3.44 (10), 3.15 (8), 2.570 (8), 10.2 (7), 2.85 (7), 2.63 (7), 1.715 (5b)

Chemistry:	(1)		(1)	
	SiO ₂	27.10	MgO	0.28
	TiO ₂	15.90	CaO	2.94
	(Zr, Hf)O ₂	0.70	SrO	0.08
	Al ₂ O ₃	0.36	BaO	9.80
	RE ₂ O ₃	0.30	Na ₂ O	3.15
	Fe ₂ O ₃	1.64	K ₂ O	2.31
	Nb ₂ O ₅	1.03	F	2.66
	Ta ₂ O ₅	0.07	H ₂ O ⁺	0.33
	FeO	19.07	H ₂ O ⁻	0.36
	MnO	12.93	-O = F ₂	1.12
			<hr/> Total	99.89

(1) Near the Jinshajiang River, China; corresponds to $\text{Na}_{1.81}\text{K}_{0.87}\text{Ba}_{1.14}\text{Ca}_{0.93}\text{RE}_{0.10}\text{Sr}_{0.01}(\text{Fe}_{4.73}^{2+}\text{Mn}_{3.25}\text{Mg}_{0.12})_{\Sigma=8.10}(\text{Ti}_{3.55}\text{Fe}_{0.37}^{3+}\text{Nb}_{0.14}\text{Zr}_{0.10})_{\Sigma=4.16}(\text{Si}_{8.04}\text{Al}_{0.12})_{\Sigma=8.16}\text{O}_{32}[\text{O}_{2.83}\text{F}_{2.49}(\text{H}_2\text{O})_{0.56}(\text{OH})_{0.12}]_{\Sigma=6.00}$.**Occurrence:** In an arfvedsonite dike in alkalic syenites.**Association:** Albite, arfvedsonite, aegirine, pyrochlore, monazite, chevkinite.**Distribution:** Found near the Jinshajiang River, western Sichuan Province, China.**Name:** For the Jinshajiang River, China.**Type Material:** Institute of Geochemistry, Academy Sinica, Guiyang, Ghizhou Province, China.**References:** (1) Hong Wenxing and Fu Pingqiu (1982) Jinshajiangite, a new Ba-Mn-Fe-Ti-bearing silicate mineral. *Geochemistry (China)*, 1, 458–464 (in English). (2) (1984) *Amer. Mineral.*, 69, 567 (abs. ref. 1). (3) Chao, G.Y. (1991) Perraultite, a new hydrous Na-K-Ba-Mn-Ti-Nb silicate species from Mont Saint-Hilaire, Quebec. *Can. Mineral.*, 29, 355–358.