

Crystal Data: Monoclinic. *Point Group:* $2/m$. As tabular to bladed crystals, elongated along [100], to 1.5 mm, with strongly curved faces; may be in bundles.

Physical Properties: *Cleavage:* On {010}. *Tenacity:* Brittle. *Hardness* = 4
D(meas.) = 5.75(6) D(calc.) = 5.77

Optical Properties: Semitransparent. *Color:* Bright Duesbury green. *Streak:* Pale green.
Luster: Resinous, dull if altered.

Optical Class: Biaxial (+). *Pleochroism:* Weak; in watery greens. *Orientation:* $Y = b$; $X \wedge c = 22^\circ$; $Z \wedge a = 3^\circ$. *Absorption:* $Z > Y > X$. $\alpha = 2.115$ $\beta = 2.135$ $\gamma = 2.26$ $2V(\text{meas.}) = 40^\circ$

Cell Data: *Space Group:* $P2_1/c$. $a = 6.866$ $b = 9.314$ $c = 7.598$ $\beta = 109.1^\circ$ $Z = 4$

X-ray Powder Pattern: Lone Pine mine, New Mexico, USA.
3.064 (100), 4.654 (8), 3.348 (8), 3.111 (7), 2.744 (7), 3.793 (6b), 2.844 (5)

Chemistry:

	(1)	(2)
TeO ₂	80.91	80.05
CuO	18.03	19.95
CaO	1.06	
Total	[100.00]	100.00

(1) Lone Pine mine, New Mexico, USA; average of three analyses, each corrected to 100.00% for remnant SiO₂ as quartz; corresponds to (Cu_{0.90}Ca_{0.08})_{Σ=0.98}Te_{2.01}O₅. (2) CuTe₂O₅.

Occurrence: A very rare mineral, coating fractures in intensely silicified rhyolite breccia.

Association: Mackayite, quartz.

Distribution: At a prospect near the Lone Pine mine, Wilcox district, Catron Co., New Mexico, USA.

Name: To honor Robert Allen Jenkins (1944–), American geologist and mineralogist, Phelps Dodge Corporation, who found the first specimens.

Type Material: Natural History Museum, Paris, France; The Natural History Museum, London, England, 1980,547; Harvard University, Cambridge, Massachusetts, USA, 119101.

References: (1) Williams, S.A. (1979) Rajite, naturally occurring cupric pyrotellurite, a new mineral. *Mineral. Mag.*, 43, 91–92. (2) (1979) *Amer. Mineral.*, 64, 1331 (abs. ref. 1).