

**Crystal Data:** Triclinic, pseudohexagonal. *Point Group:* 1 or  $\bar{1}$ . In sprays of subparallel pseudohexagonal crystals, elongated along [001], to 1 mm; may be fibrous.

**Physical Properties:** *Cleavage:* {001}, interrupted. Hardness =  $\sim 3$  D(meas.) = n.d.  
D(calc.) = 5.77

**Optical Properties:** Transparent to translucent. *Color:* Colorless to white. *Streak:* White.  
*Luster:* Greasy to subadamantine.

*Optical Class:* Biaxial (+). *Orientation:*  $X \wedge c = 3^\circ\text{--}5^\circ$ .  $\alpha = 1.920(5)$   $\beta = [1.922]$   
 $\gamma = 1.943(5)$   $2V(\text{meas.}) = 20(5)^\circ$

**Cell Data:** *Space Group:*  $P1$  or  $P\bar{1}$ .  $a = 6.945(12)$   $b = 6.958(11)$   $c = 9.279(6)$   
 $\alpha = 102.94(10)^\circ$   $\beta = 103.05(11)^\circ$   $\gamma = 114.77(12)^\circ$   $Z = 2$

**X-ray Powder Pattern:** Tsumeb, Namibia.

2.95 (10), 3.41 (5), 2.22 (5), 4.20 (4), 1.847 (4), 1.782 (4), 5.87 (3)

**Chemistry:**

	(1)
GeO <sub>2</sub>	64.7
PbO	35.5
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Total	100.2

(1) Tsumeb, Namibia; by electron microprobe, corresponding to Pb<sub>1.03</sub>Ge<sub>3.99</sub>O<sub>9</sub>.

**Occurrence:** In cavities in oxidized germanium-bearing sulfides in a dolostone-hosted hydrothermal polymetallic ore deposit.

**Association:** Tennantite, germanite, reniérite, chalcocite, schaurteite, siderite, calcite, quartz, gypsum.

**Distribution:** From Tsumeb, Namibia.

**Name:** From *Otjisume*, the Herero name for Tsumeb, Namibia.

**Type Material:** University of Stuttgart, Stuttgart, Germany, NM06; National Museum of Natural History, Washington, D.C., USA, 149053.

**References:** (1) Keller, P., H. Hess, and P.J. Dunn (1981) Otjisumeit, PbGe<sub>4</sub>O<sub>9</sub>, ein neues Mineral aus Tsumeb, Namibia. Neues Jahrb. Mineral., Monatsh., 49–55 (in German with English abs.). (2) (1987) Amer. Mineral., 72, 1026–1027 (abs. ref. 1).