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**Crystal Data:** Hexagonal. *Point Group:* 3,  $\overline{3}$ , 32, 3m, or  $\overline{3}$  2/m. As platy, six-sided crystals, to 0.3 mm, flattened on {0001}. Also as radiating groups, to < 1 mm, of intergrown blades and scales.

**Physical Properties:** Cleavage: Perfect on  $\{0001\}$ . Hardness =  $\sim 2$  D(meas.) = 4.7 D(calc.) = 4.76

Optical Properties: Translucent. Color: Colorless, white, or pale greenish yellow.

Streak: White. Luster: Vitreous, weakly pearly on cleavages. Optical Class: Uniaxial (-).  $\omega = 1.810(4)$   $\epsilon = 1.745(3)$ 

Cell Data: Space Group: R3, R3, R32, R3m, or R $\overline{3}$  2/m. a = 8.457(2) c = 45.970(22) Z = 3

**X-ray Powder Pattern:** Tsumeb, Namibia. 3.257 (100), 15.30 (70), 2.030 (70), 7.68 (60), 2.766 (60), 1.762 (60), 4.08 (50)

Chemistry:

	(1)
$\mathrm{SiO}_2$	26.2
$\bar{\mathrm{GeO}_2}$	3.9
${ m Al}_2{ m O}_3$	5.9
FeO	1.7
CuO	0.8
PbO	57.5
$_{ m MgO}$	0.1
${\rm H_2O}$	1.9
Total	98.0

(1) Tsumeb, Namibia; by electron microprobe,  $H_2O$  estimated by elemental analyzer; corresponds to  $Pb_{7.08}(Fe_{0.65}Cu_{0.28}Mg_{0.07})_{\Sigma=1.00}Al_{3.18}Ge_{1.03}Si_{12}O_{41.81}H_{5.81}$ .

**Occurrence:** In cavities of corroded Pb-Zn ores in the lower oxidation zone of a polymetallic mineral deposit.

**Association:** Queitite, alamosite, melanotekite, kegelite, larsenite, schaurteite, anglesite, willemite, leadhillite, mimetite.

Distribution: From Tsumeb, Namibia.

Name: To honor Mathew Rogers, the first European prospector at Tsumeb, Namibia.

**Type Material:** University of Stuttgart, Stuttgart, Germany, NM15; National Museum of Natural History, Washington, D.C., USA.

**References:** (1) Keller, P. and P.J. Dunn (1986) Mathewrogersit, ein neues Bleisilikatmineral von Tsumeb, Namibia. Neues Jahrb. Mineral., Monatsh., 203–208 (in German with English abs.). (2) (1987) Amer. Mineral., 72, 1025 (abs. ref. 1).