

**Crystal Data:** Monoclinic. *Point Group:*  $2/m$ . Crystals, exhibiting a multitude of forms, are commonly equant, may be elongated along [010], flattened on {001} or rarely thick tabular on {001}; in aggregates of crystals, powdery, massive.

**Physical Properties:** *Cleavage:*  $\{\bar{1}01\}$ , perfect. *Tenacity:* Brittle. Hardness = 2.5  
D(meas.) = 9.22 D(calc.) = 9.35

**Optical Properties:** Transparent to translucent. *Color:* Sulfur-yellow, greenish yellow, brown; turns olive-green on exposure to light; pale olive-green in transmitted light.  
*Streak:* Lemon-yellow, turning olive-green. *Luster:* Brilliant adamantine.  
*Optical Class:* Biaxial (-). *Pleochroism:* Slight; green to yellow. *Orientation:* OAP  $\parallel$   $b$  and inclined  $-7^\circ$  to  $c$ . *Dispersion:*  $r < v$ , extreme.  $\alpha = 2.35(2)$   $\beta = 2.64(2)$   $\gamma = 2.66(2)$   
 $2V(\text{meas.}) = 20(2)^\circ$

**Cell Data:** *Space Group:*  $C2/c$  (synthetic).  $a = 11.953(4)$   $b = 5.904(3)$   $c = 9.466(4)$   
 $\beta = 105.59(6)^\circ$   $Z = 4$

**X-ray Powder Pattern:** Synthetic. (ICDD 25-559).  
2.505 (100), 5.76 (80), 4.17 (80), 3.28 (80), 2.815 (80), 2.596 (80), 4.34 (60)

Chemistry:	(1)	(2)	(3)
Hg	88.24	88.61	88.63
O	3.47	3.75	3.54
Cl	7.89	7.83	7.83
Total	99.60	100.19	100.00

(1–2) Terlingua, Texas, USA; each value is an average of several analyses. (3) Hg<sub>2</sub>OCl.

**Occurrence:** A rare secondary mineral in hydrothermal mercury deposits.

**Association:** Cinnabar, metacinnabar, eglestonite, kleinite, montroydite, calomel, mercury.

**Distribution:** In the USA, from Terlingua, Brewster Co., Texas; in the McDermitt mercury mine, Opalite district, and from the Cahill mine, Poverty Peak district, Humboldt Co., Nevada; at the Kings mine, Parkfield district, Kings Co., and the Nepper and Clear Creek mines, New Idria district, San Benito Co., California. In Mexico, from Huahuaxtla, Guerrero; Pedernales, Chihuahua; and Guadalázar, San Luis Potosi. At Landsberg, near Obermoschel, Rhineland-Palatinate, Germany. From Khaydarkan, Fergana Valley, Alai Range, Kyrgyzstan. A few other minor or poorly-defined localities are known.

**Name:** For its occurrence at Terlingua, Texas, USA.

**Type Material:** n.d.

**References:** (1) Palache, C., H. Berman, and C. Frondel (1951) Dana's system of mineralogy, (7th edition), v. II, 52–56. (2) Aurivillius, K. and L. Folkmarson (1968) The crystal structure of terlinguaite, Hg<sub>4</sub>O<sub>2</sub>Cl<sub>2</sub>. Acta Chem. Scand., 22, 2529–2540. (3) Broderon, K., G. Göbel, and G. Liehr (1989) Terlinguaite Hg<sub>4</sub>O<sub>2</sub>Cl<sub>2</sub> – ein Mineral mit ungewöhnlichen Hg<sub>3</sub>-Baueinheiten. Zeitschrift für anorganische und allgemeine Chemie, 575, 145–153 (in German with English abs.).