Seeligerite

Crystal Data: Orthorhombic, pseudotetragonal. Point Group: 222. Crystals are thin square platelets, to 1 mm.


Optical Properties: Semitransparent. Color: Bright yellow. Optical Class: Biaxial (-). Dispersion: r > v. α = 2.12 β = ∼2.32 γ = ∼2.32 2V(meas.) = 4°

Cell Data: Space Group: C222_1. a = 7.964(3) b = 7.964(3) c = 27.288(7) Z = 8

X-ray Powder Pattern: Synthetic. 3.219 (10), 3.649 (9), 2.785 (8), 1.991 (8), 1.693 (8), 1.619 (8), 2.816 (7)

Chemistry: (1) Santa Ana mine, Chile; no analysis could be performed due to admixtures; identification depends on coincidence of the X-ray powder pattern with that of synthetic material.

Occurrence: A rare secondary mineral formed in the oxidized zone of hydrothermal polymetallic mineral deposits.

Association: Boleite, paralaurionite, schwartzembergite (Santa Ana mine, Chile).

Distribution: From the Santa Ana, Casуча, and San Francisco (Beatriz) mines, near Caracoles, Sierra Gorda district, Antofagasta, Chile.

Name: To honor Erich Seeliger, Professor of Mineralogy, Technical University, Berlin, Germany.

Type Material: Type material is missing from the Technical University, Berlin, Germany.