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Crystal Data: Monoclinic. *Point Group:* 2/m. Crystals, to 0.2 mm, platy on $\{001\}$, elongated along [010], in roughly spherulitic aggregates.

Physical Properties: Tenacity: Moderately brittle. Hardness = 3-4 D(meas.) = 3.51(5) D(calc.) = 3.547

Optical Properties: Transparent to translucent. *Color:* Colorless to grayish white. *Streak:* White. *Luster:* Vitreous.

Optical Class: Biaxial (+). Orientation: Y = b; $X \wedge c = 49^{\circ}$. Dispersion: $r \gg v$, strong. $\alpha = 1.648(1)$ $\beta = 1.664(1)$ $\gamma = 1.702(2)$ $2V(\text{meas.}) = 63.4(6)^{\circ}$ $2V(\text{calc.}) = 67^{\circ}$

Cell Data: Space Group: A2/a. a = 16.110(7) b = 5.432(1) c = 15.041(10) $\beta = 95.490(4)^{\circ}$ Z = 4

X-ray Powder Pattern: Franklin, New Jersey, USA. 7.50 (10), 3.63 (5), 2.621 (5), 3.75 (4), 3.53 (4), 2.500 (4), 2.281 (3)

Chemistry:

| | (1) |
|--------|---------|
| CO_2 | [12.67] |
| FeO | 0.1 |
| MnO | 4.2 |
| ZnO | 62.0 |
| MgO | 6.7 |
| H_2O | [12.97] |
| Total | [98.64] |

(...)

(1) Franklin, New Jersey, USA; by electron microprobe, total Mn as MnO, CO₂ and H₂O calculated from crystal-structure analysis; corresponds to $(Zn_{2.39}Mg_{1.18}Mn_{0.42})_{\Sigma=3.99}Zn_{3.00}$ $(CO_3)_2(OH)_{10}$.

Occurrence: Very rare on a museum specimen, in a veinlet possibly of hydrothermal origin, from a metamorphosed stratiform zinc orebody.

Association: Gageite, leucophoenicite, chlorophoenicite, rhodochrosite, willemite, zincite, franklinite.

Distribution: From Franklin, Sussex Co., New Jersey, USA.

Name: To honor Professor Charles Bertram Sclar (1925–2001), Geology Department, Lehigh University, Bethlehem, Pennsylvania, USA, who long studied the genesis of the Franklin deposit.

Type Material: Canadian Museum of Nature, Ottawa, Canada, 53777; National Museum of Natural History, Washington, D.C., USA, B13671.

References: (1) Grice, J.D. and P.J. Dunn (1989) Sclarite, a new mineral from Franklin, New Jersey, with essential octahedrally and tetrahedrally coordinated zinc: description and structure refinement. Amer. Mineral., 74, 1355–1359.