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Crystal Data: Monoclinic. Point Group: 2/m. Crystals are lathlike, elongated along [010], to 0.5 mm , in radiating bundles and subparallel aggregates.

Physical Properties: Hardness $=\sim 3 \quad D$ (meas. $)=3.27 \quad D$ (calc. $)=3.34$
Optical Properties: Transparent. Color: Pale blue, pale brown; colorless in transmitted light. Optical Class: Biaxial (+). Orientation: $Y=b . \quad$ Dispersion: $r>v$, weak. $\quad \alpha=1.637$ $\beta=1.648 \quad \gamma=1.676 \quad 2 \mathrm{~V}$ (meas.) $=64^{\circ}$

Cell Data: Space Group: A2/a. $\quad a=16.408(7) \quad b=5.540(3) \quad c=15.150(4)$ $\beta=95.48(3)^{\circ} \quad \mathrm{Z}=4$

X-ray Powder Pattern: Franklin, New Jersey, USA.
3.68 (100), 2.63 (100), 3.80 ( 90 ), 7.49 ( 80 ), 2.54 (70), 3.54 (60), 2.79 (60)

Chemistry:

| $\mathrm{CO}_{2}$ | 12.59 |
| :--- | ---: |
| $\mathrm{Mn}_{2} \mathrm{O}_{3}$ | 1.03 |
| FeO | 0.64 |
| MnO | 34.94 |
| ZnO | 32.77 |
| MgO | 3.42 |
| $\mathrm{H}_{2} \mathrm{O}$ | 13.83 |
| insol. | 0.16 |
| Total | 99.38 |

(1) Franklin, New Jersey, USA; corresponds to $\left(\mathrm{Mn}_{3.49} \mathrm{Zn}_{2.85} \mathrm{Mg}_{0.60} \mathrm{Fe}_{0.06}\right)_{\Sigma=7.00}$ $\left(\mathrm{CO}_{3}\right)_{2.02}(\mathrm{OH})_{10.86}$. (2) Do.; by electron microprobe, average of seven analyses, not given; stated to correspond to $\left(\mathrm{Mn}_{3.48} \mathrm{Zn}_{2.99} \mathrm{Mg}_{0.53}\right)_{\Sigma=7.00}\left(\mathrm{CO}_{3}\right)_{2}(\mathrm{OH})_{10}$.

Occurrence: A very rare mineral occurring in veinlets in massive ore in a metamorphosed stratiform zinc orebody.

Association: Pyrochroite, sussexite, chlorophoenicite, calcite.
Distribution: From Franklin, Sussex Co., New Jersey, USA.
Name: To honor Samuel R. Losey (1830-1904), mineral collector of Franklin, New Jersey, USA.
Type Material: National School of Mines, Paris, France; Harvard University, Cambridge, Massachusetts, 89344; National Museum of Natural History, Washington, D.C., USA, 95984, 162599.

References: (1) Palache, C., H. Berman, and C. Frondel (1951) Dana's system of mineralogy, (7th edition), v. II, 214-215. (2) Hill, R.J. (1981) The structure of loseyite. Acta Cryst., 37, 1323-1328.

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