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Crystal Data: Monoclinic. *Point Group:* m. As spherules with a fibrous to platy structure, to 2.5 cm; also as fine granular aggregates and groups of small thick plates.

Physical Properties: Cleavage: Perfect on $\{010\}$ and $\{100\}$; poor on $\{001\}$. Hardness = 2.5 VHN = n.d. D(meas.) = 3.62 D(calc.) = 3.723

Optical Properties: Transparent. *Color:* Cinnabar-red. *Streak:* Bright cinnabar-red; powder darkens on exposure. *Luster:* Weakly adamantine.

Optical Class: [Biaxial.] Pleochroism: Weak; X = salmon-red; Y = Z = deep blood-red. n = > 2.01

 R_1-R_2 : n.d.

Cell Data: Space Group: Cm. a = 9.911(8) b = 23.05(2) c = 7.097(8) $\beta = 127.85(7)^{\circ}$ Z = 2

X-ray Powder Pattern: Baker mine, California, USA. 11.85 (100), 3.05 (90), 5.64 (70), 4.03 (70), 2.81 (50), 2.739 (40), 1.934 (40)

Chemistry:

	(1)	(2)	(3)
Na	4.28	4.65	3.29
Li	0.135	0.15	
Sb	47.80	51.91	55.74
As	7.38	8.02	8.57
\mathbf{S}	27.01	29.33	29.82
H_2O	5.47	5.94	2.58
gangue	n.d.		
Total	92.07	100.00	100.00

(1) Baker mine, California, USA. (2) Analysis (1) recalculated to 100% after deduction of gangue 8%, corresponds to $(Na_{2.87}Li_{0.31})_{\Sigma=3.18}(Sb_{6.06}As_{1.52})_{\Sigma=7.58}S_{13.00} \cdot 4.68H_2O$. (3) $Na_2(Sb, As)_8S_{13} \cdot 2H_2O$ with Sb:As=4:1.

Occurrence: A low-temperature mineral found embedded in massive borates and clay.

Association: Borax, probertite, tincalconite, realgar, stibnite.

Distribution: In the USA, from the Baker mine, Kramer borate deposit, Boron, Kern Co., California [TL].

Name: Honors James Mack Gerstley (1907–), President of the Pacific Coast Borax Company.

Type Material: Harvard University, Cambridge, Massachusetts, 111307; National Museum of Natural History, Washington, D.C., USA, 106916.

References: (1) Frondel, C. and V. Morgan (1956) Inderite and gerstleyite from the Kramer borate district, Kern County, California. Amer. Mineral., 41, 839–843. (2) Nakai, I. and D.E. Appleman (1981) The crystal structure of gerstleyite Na₂(Sb, As)₈S₁₃•2H₂O: the first sulfosalt mineral of sodium. Chem. Lett., 10, 1327–1330. (3) (1981) Chem. Abs., 95, 195617 (abs. ref. 2).