

Crystal Data: Orthorhombic. *Point Group:* n.d. As minute crystals, prismatic along [001], exhibiting {110}, {011}, {121}, and less commonly {010}, {100}.

Physical Properties: Hardness = ~ 3.5 D(meas.) = ~ 2.94 D(calc.) = 2.96

Optical Properties: Semitransparent. *Color:* Emerald-green; green in transmitted light.
Optical Class: Biaxial (-). *Orientation:* $X = c$; $Y = b$; $Z = a$. $\alpha = 1.684(1)$ $\beta = 1.695(1)$
 $\gamma = 1.698(1)$ $2V(\text{meas.}) = \text{n.d.}$ $2V(\text{calc.}) = 54^\circ 52'$

Cell Data: *Space Group:* n.d. (ICDD 25-1158). $a = 6.49$ $b = 9.52$ $c = 7.12$ $Z = 4$

X-ray Powder Pattern: Alum Rock Canyon, California, USA. (ICDD 25-1158).
2.386 (100), 5.70 (80), 5.36 (70), 2.965 (70), 1.690 (35), 2.895 (20), 2.842 (20)

Chemistry:	(1)	(2)
Mn	50.59	55.96
O	[21.40]	12.22
Cl	16.41	18.06
H ₂ O	11.60	13.76
Total	[100.00]	100.00

(1) Alum Rock Canyon, California, USA; O by difference, recalculated to 100% after deduction of insoluble material. (2) $\text{Mn}_2\text{Cl}(\text{OH})_3$.

Occurrence: In an erratic boulder with other manganese-bearing species.

Association: Pyrochroite, hausmannite, rhodochrosite, tephroite, "psilomelane".

Distribution: In Alum Rock Canyon, eight km east of San Jose, Santa Clara Co., California, USA.

Name: Honors economic geologist James Furman Kemp (1859–1926), Professor of Geology, Columbia University, New York City, New York, USA.

Type Material: National Museum of Natural History, Washington, D.C., USA, R1352.

References: (1) Palache, C., H. Berman, and C. Frondel (1951) Dana's system of mineralogy, (7th edition), v. II, 73–74.