

Crystal Data: Hexagonal. *Point Group:* $\bar{3}$. As hexagonal tablets to 0.2 mm, displaying {100} and {001}.

Physical Properties: *Cleavage:* Good on {001}. *Fracture:* Irregular. *Tenacity:* Brittle. Hardness = ~2 D(meas.) = n.d. D(calc.) = 2.69

Optical Properties: Transparent. *Color:* Orange-red. *Streak:* Pinkish orange. *Luster:* Vitreous. *Optical Class:* Uniaxial (–). $n = 1.721$ (calculated.) *Pleochroism:* $O = \text{orange-red}$, $E = \text{red-orange}$. *Absorption:* $E < O$.

Cell Data: Space Group: $P\bar{3}$. $a = 14.936(5)$ $c = 15.846(5)$ $Z = 2$

X-ray Powder Pattern: Packrat mine, near Gateway, Mesa County, Colorado, USA. 15.85 (100), 12.92 (86), 10.04 (73), 2.918 (33), 2.978 (25), 2.767 (23), 3.497 (16)

Chemistry:	(1)	(2)
PbO	28.12	26.83
CaO	5.66	6.74
MgO	0.96	
V ₂ O ₅	50.20	47.38
As ₂ O ₅	4.64	4.61
H ₂ O	[15.30]	14.44
Total	104.88	100.00

(1) Packrat mine, near Gateway, Mesa County, Colorado, USA; average of 5 electron microprobe analyses, H₂O calculated; corresponds to $\text{Pb}_{2.98}\text{Ca}_{2.39}\text{Mg}_{0.56}\text{V}_{13.05}\text{As}_{0.95}\text{O}_{61}\text{H}_{40.15}$.

(2) $\text{Pb}_3\text{Ca}_3[\text{AsV}_{12}\text{O}_{40}(\text{VO})]\cdot 20\text{H}_2\text{O}$.

Occurrence: A secondary mineral found on asphaltum in a montroseite- and corvusite-bearing sandstone in a roll-front type uranium deposit.

Association: Ansermetite, gypsum, mesaite, sherwoodite.

Distribution: From the Packrat mine, near Gateway, Mesa County, Colorado, USA.

Name: Recognizes the presence of the e-isomer of the Keggin anion in the mineral and also honors J.F. Keggin who first experimentally determined the structure of α -Keggin anions in 1934.

Type Material: Natural History Museum of Los Angeles County, Los Angeles, California, USA (65636, 65637, 65638, 66474, 66475).

References: (1) Kampf, A.R., J. M. Hughes, B.P. Nash, and J. Marty (2017) Kegginite, $\text{Pb}_3\text{Ca}_3[\text{AsV}_{12}\text{O}_{40}(\text{VO})]\cdot 20\text{H}_2\text{O}$, a new mineral with a novel e-isomer of the Keggin anion. *Amer. Mineral.*, 102, 461-465.