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Crystal Data: Orthorhombic, pseudohexagonal. Point Group: $2/m \ 2/m \ 2/m$, mm2, or 222. Crystals tabular on $\{001\}$, pseudohexagonal in section. Twinning: Sector twinning with composition plane $\{110\}$.

Physical Properties: Cleavage: $\{001\}$, good. Hardness = n.d. D(meas.) = 5.7 D(calc.) = [5.55]

Optical Properties: Transparent to translucent. Color: Orange. Optical Class: Biaxial (-). Orientation: X=a; Z=b. $\alpha=\text{n.d.}$ $\beta=2.01$ $\gamma=2.06$ $2V(\text{meas.})=55^{\circ}$

Cell Data: Space Group: Cmmm, Cm2m, Cmm2, or C222. a = 14.04 b = 24.07 c = 14.13 Z = [16]

X-ray Powder Pattern: Margnac mine, France. 7.08 (vvs), 3.128 (vvs), 3.485 (vs), 3.153 (vs), 3.516 (s), 2.023 (s), 6.05 (ms)

Chemistry:

	(1)
UO_3	85.15
CaO	2.20
SrO	2.05
BaO	0.00
K_2O	3.35
$H_2^{-}O^{+}$	7.45
Total	100.20

(1) Margnac mine, France; by electron microprobe, H_2O by TGA; corresponding to $(Ca_{0.40}K_{0.36}Sr_{0.20})_{\Sigma=0.96}U_{3.00}O_{10} \cdot 4.17H_2O$.

Occurrence: In the oxidation zone of a uranium deposit.

Association: Uranophane, "gummite".

Distribution: From the Margnac mine, Compreignac, Haute-Vienne, France.

Name: For Henri Agrinier (1928–1971), an engineer in the Mineralogy Laboratory of the French Atomic Energy Commission, Paris, France.

Type Material: University of Pierre and Marie Curie, Paris; National School of Mines, Paris, France; National Museum of Natural History, Washington, D.C., USA, 137454.

References: (1) Cesbron, F., W.L. Brown, P. Bariand, and J. Geffroy (1972) Rameauite and agrinierite, two new hydrated complex uranyl oxides from Margnac, France. Mineral. Mag., 38, 781–789. (2) (1973) Amer. Mineral., 58, 805 (abs. ref. 1).