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Crystal Data: Monoclinic, pseudohexagonal. Point Group: 2/m or m. As crystals, to 1 mm, pseudohexagonal in section, steep pyramidal, flattened on $\{010\}$, and elongated along [001], with $\{010\}$, $\{100\}$, $\{001\}$, and $\{110\}$. Twinning: Universal, on $\{100\}$.

Physical Properties: Cleavage: Good on $\{010\}$. Hardness = n.d. D(meas.) = 5.60 D(calc.) = 5.55

Optical Properties: Semitransparent. Color: Orange.

Optical Class: Biaxial (–). Orientation: X = b; $Z \wedge c = 4^{\circ}-6^{\circ}$. $\alpha = \text{n.d.}$ $\beta = 1.95$ $\gamma = 1.97$ $2V(\text{meas.}) = 32^{\circ}$

Cell Data: Space Group: C2/c or Cc. a = 13.97 b = 14.26 c = 14.22 $\beta = 121^{\circ}1(5)'$ Z = 4

X-ray Powder Pattern: Margnac mine, France.

7.12 (vvs), 3.495 (vvs), 3.139 (vvs), 3.124 (vvs), 3.566 (vs), 3.473 (vs), 3.185 (vs)

Chemistry:

	(1)
UO_3	84.
CaO	2.4
SrO	0.0
BaO	0.0
K_2O	5.0
$\mathrm{H_2O^+}$	8.2
Total	99.6

(1) Margnac mine, France; by electron microprobe, H₂O by TGA; corresponds to K_{2.16}Ca_{0.87}U_{6.00}O₂₀ • 9.3H₂O.

Occurrence: In the oxidation zone of uranium deposits.

Association: Calcite, uranophane, uraninite, "gummite".

Distribution: From the Margnac mine, Compreignac, Haute-Vienne, France. At Shinkolobwe, Katanga Province, Congo (Shaba Province, Zaire). Found in the Orphan mine, Grand Canyon, Coconino Co., Arizona, USA.

Name: For Jacques Rameau (?–1960), prospector for the French Atomic Energy Commission, Paris, France, who discovered the Margnac 2 deposit.

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).