

Crystal Data: Monoclinic. *Point Group:* $2/m$. As complexly faceted crystals, several cm in length, with {100}, {221}, { $2\bar{2}1$ }, and {001} prominent; 28 forms have been recognized. *Twining:* Commonly twinned on {100}, producing contact twins or finely polysynthetic lamellae.

Physical Properties: *Cleavage:* {100} and {010}. Hardness = ~ 3 D(meas.) = 6.30–6.49 D(calc.) = [6.38]

Optical Properties: Transparent. *Color:* Colorless to yellow; colorless to gray or brown in thin section. *Streak:* White. *Luster:* Adamantine.

Optical Class: Biaxial (-). *Pleochroism:* X = light brownish; Z = brownish. *Dispersion:* Weak, inclined. $\alpha = 2.250(8)$ $\beta = 2.382(8)$ $\gamma = 2.410(8)$ $2V(\text{meas.}) = 50^\circ$

Cell Data: *Space Group:* $P2_1/a$. $a = 13.37\text{--}13.379$ $b = 7.16\text{--}7.174$ $c = 7.11\text{--}7.116$
 $\beta = 105.96^\circ\text{--}106^\circ$ $Z = 4$

X-ray Powder Pattern: Mounana mine, Gabon.

3.441 (FFF), 3.428 (FFF), 3.206 (FF), 4.93 (F), 3.081 (F), 4.32 (mF), 3.569 (mF)

Chemistry:

	(1)
V_2O_5	29.1
PbO	71.6
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Total	100.7

(1) Mounana mine, Gabon; by electron microprobe, corresponds to $\text{Pb}_{2.00}\text{V}_{2.00}^{5+}\text{O}_7$.

Occurrence: In the oxidized zone of a vanadium- and lead-bearing uranium deposit (Mounana mine, Gabon).

Association: Francevillite, wulfenite (Mounana mine, Gabon); mottramite, cuprite, heyite, diopside, malachite, plancheite, vanadinite, wakefieldite-(Ce) (Kusu deposit, Congo).

Distribution: In the Mounana uranium mine, Franceville, Gabon. From the Kusu deposit, 85 km south of Kinshasa, Bas-Zaïre Province, Congo (Zaire). From St. Andreasberg, Harz Mountains, Germany. Found at Vrančice, near Příbram, Czech Republic.

Name: Honors Jean Chervet, French mineralogist.

Type Material: National School of Mines, Paris, France.

References: (1) Bariand, P., F. Chantret, R. Pouget, and A. Rimsky (1963) Une nouvelle espèce minérale: la chervétite, pyrovanadate de plomb $\text{Pb}_2\text{V}_2\text{O}_7$. Bull. Soc. fr. Minéral., 86, 117–120 (in French). (2) (1963) Amer. Mineral., 48, 1416 (abs. ref. 1). (3) Cesbron, F. (1965) Données nouvelles sur la chervétite. Bull. Soc. fr. Minéral., 88, 126–129 (in French). (4) Kawahara, A. (1967) La structure cristalline de la chervétite. Bull. Soc. fr. Minéral., 90, 279–284 (in French with English abs.). (5) Cervelle, B. and F. Cesbron (1973) Propriétés optiques de la chervétite, pyrovanadate de plomb. Bull. Soc. fr. Minéral., 96, 391–392 (in French with English abs.). (6) Shannon, R.B. and C. Calvo (1973) Refinement of the crystal structure of synthetic chervetite, $\text{Pb}_2\text{V}_2\text{O}_7$. Canadian J. Chemistry, 51, 70–76. (7) Mrázek, Z. (1985) Brandtite and chervetite from Vrančice near Příbram (Bohemia). Časopis pro Mineralogii a Geologii, 30(3), 295–302. (8) (1992) Mineral. Abs., 43, 224–225 (abs. ref. 7).