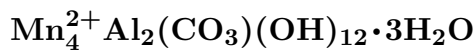


Charmarite

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Crystal Data: Monoclinic. *Point Group:* $2/m$. As complexly faceted crystals, several cm in length, with {100}, {221}, { $\bar{2}\bar{2}1$ }, 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 ₂ O ₅ 29.1
	PbO 71.6
	<hr/> 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 lead-bearing U–V deposit (Mounana mine, Gabon).

Association: Francevillite, wulfenite (Mounana mine, Gabon).

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

Name: Honors Jean Chervet (1904–1962), French mineralogist.

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

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