Crystal Data: Monoclinic. *Point Group*: 2/*m*. As euhedral flattened prismatic crystals to 300 μm.

Physical Properties: *Cleavage*: Perfect on (001). *Tenacity*: Brittle. *Fracture*: Curved.
Hardness = 3.5 D(meas.) = 3.28(2) D(calc.) = 3.298 Nonfluorescent.

Optical Properties: Transparent to translucent. *Color*: Yellow to orange. *Streak*: Yellowish white. *Luster*: Vitreous.
Optical Class: Biaxial. 1.791 < *n*(calc.) < 1.799 *Pleochroism*: Strong: *X* = yellow, *Y* = orange yellow, *Z* = brownish orange. *Absorption*: *X* < *Y* << *Z*. Elongation (+). *Orientation*: Z ∧ c ~ 14°.

Cell Data: *Space Group*: $P2_1/n$. a = 7.8289(2) b = 14.5673(4) c = 6.7011(2) β = 93.773(2)° Z = 4

X-Ray Diffraction Pattern: Fianel mine, Val Ferrera, Grisons, Switzerland.
3.048 (100), 5.34 (80), 2.730 (60), 2.206 (60), 7.28 (50), 2.344 (50), 6.88 (40)

Chemistry:

	(1)	(2)
MnO	36.84	38.58
FeO	0.06	
As_2O_5	25.32	31.25
V_2O_5	28.05	20.38
SiO_2	0.13	
H_2O	9.51	9.79
Total	99.91	100.00

(1) Fianel mine, Val Ferrera, Grisons, Switzerland; average electron microprobe analysis supplemented by Raman spectroscopy, H_2O calculated; corresponding to $Mn_{1.97}(V^{5+}{}_{1.17}As_{0.83}Si_{0.01})_{\Sigma=2.01}O_7{\cdot}2H_2O$. (2) $Mn^{2+}{}_2V^{5+}As^{5+}O_7{\cdot}2H_2O$.

Polymorphism & Series: As-dominant analogue of fianelite.

Occurrence: In a small Alpine metamorphic Mn deposit in dolomitic marble.

Association: Ansermetite, Fe oxyhydroxide (Fianel); braccoite, fianelite , quartz, hematite (Valletta).

Distribution: From the Fianel mine, Val Ferrera, Grisons, Switzerland [TL] and the Valletta mine, Canosio, Cuneo, Piedmont, Italy.

Name: Honors Gottfried *Rüdlinger* (b. 1919), a pioneer in the 1960-1980s, in the study of small minerals from the Alpine manganese mineral deposits of Grisons.

Type Material: Mineralogical Collection, Geology Museum, University of Lausanne, Switzerland (MGL 080116) and Museum of Natural Sciences, Torino, Italy (M/U 17121).

References: (1) Roth, P., N. Meisser, F. Nestola, R. Škoda, F. Cámara, F. Bosi, M.E. Ciriotti, U. Hålenius, C. Schnyder, and R. Bracco (2020) Rüdlingerite, $Mn^{2+}{}_2V^{5+}As^{5+}O_7{\cdot}2H_2O$, a new species isostructural with fianelite. Minerals, 10, 960, 1-15.