Clinoungemachite  $K_3Na_8Fe^{3+}(SO_4)_6(NO_3)_2\cdot6H_2O(?)$

Crystal Data: Monoclinic, pseudohexagonal. Point Group: $2/m$ (?). As minute thick tabular pseudorhombohedral crystals, visibly indistinguishable from ungemachite; forms include \{001\}, \{100\}, \{102\}, \{111\}, twenty others.


Optical Class: Biaxial. $\alpha$ = n.d. $\beta$ = n.d. $\gamma$ = n.d. $2V$(meas.) = n.d.


X-ray Powder Pattern: n.d.

Chemistry: (1) No analysis was made, presumed to be the same as ungemachite.

Occurrence: Very rarely formed by the oxidation of pyrite in an arid climate, in veins and cavities in other massive iron sulfates.

Association: Ungemachite, jarosite, sideronatrite, metasideronatrite, metavoltine, fibroferrite.

Distribution: From Chuquicamata, Antofagasta, Chile.

Name: As the probable monoclinic dimorph of ungemachite.

Type Material: Harvard University, Cambridge, Massachusetts, USA.