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Crystal Data: Monoclinic. Point Group: $2 / m$. As acicular crystals, flattened on $\{010\}$, in stellate radial aggregates, to 0.5 cm .

Physical Properties: Cleavage: Perfect on $\{010\}$; imperfect on $\{100\},\{201\},\{\overline{2} 01\}$.
Hardness $=1 \quad \mathrm{D}$ (meas. $)=2.64$ (impure material) $. \quad \mathrm{D}($ calc. $)=2.76$
Optical Properties: Transparent to translucent. Color: White to colorless. Streak: White. Luster: Silky on cleavages.
Optical Class: Biaxial (+). Orientation: $X=b ; Z \wedge c=31^{\circ} . \quad \alpha=1.579 \quad \beta=1.589$
$\gamma=1.609 \quad 2 \mathrm{~V}$ (meas.) $=65^{\circ}-70^{\circ}$
Cell Data: Space Group: $P 2_{1} / c . \quad a=10.38(5) \quad b=28.09(5) \quad c=4.774(50) \quad \beta=105^{\circ} 40^{\prime}$ Z $=4$

X-ray Powder Pattern: Långban, Sweden.
7.01 (10), 8.19 (8), 3.02 (7), 2.41 (7), 3.25 (6), 3.09 (6), 2.88 (4)

Chemistry:

|  | $(1)$ | $(2)$ |
| :--- | ---: | ---: |
| $\mathrm{As}_{2} \mathrm{O}_{5}$ | 40.78 | 42.50 |
| $\mathrm{CO}_{2}$ | 1.35 |  |
| MnO | 22.87 | 19.67 |
| MgO | 9.47 | 11.18 |
| H O | 25.64 | 26.65 |
| Total | 100.11 | 100.00 |

(1) Långban, Sweden; $\mathrm{CO}_{2}$ and $2.17 \% \mathrm{MgO}$ from rhodochrosite impurity; corresponds then to $\left(\mathrm{Mn}_{1.65} \mathrm{Mg}_{1.32}\right)_{\Sigma=2.97}\left(\mathrm{AsO}_{4}\right)_{2.00} \cdot 8.02 \mathrm{H}_{2} \mathrm{O}$. (2) $(\mathrm{Mn}, \mathrm{Mg})_{3}\left(\mathrm{AsO}_{4}\right)_{2} \bullet 8 \mathrm{H}_{2} \mathrm{O}$ with $\mathrm{Mn}: \mathrm{Mg}=1: 1$.

Occurrence: In fissure veins in skarn in a metamorphosed Fe-Mn orebody (Långban, Sweden).
Association: Rhodochrosite, synadelphite, quartz (Långban, Sweden); adelite, alleghanyite, kraisslite, willemite (Sterling Hill, New Jersey, USA).

Distribution: From Långban, Värmland, Sweden. At Sterling Hill, Ogdensburg, Sussex Co., New Jersey, USA.

Name: For the dominant manganese content and its relation to hörnesite.
Type Material: Swedish Museum of Natural History, Stockholm, Sweden.
References: (1) Gabrielson, O. (1954) Manganiferous hoernesite and manganese-hoernesite from Långban, Sweden. Arkiv. Mineral. Geol., 1(11), 333-337. (2) (1954) Amer. Mineral., 39, 159 (abs. ref. 1).

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