## Reaphookhillite

Crystal Data: Triclinic. Point Group: 1 .

**Physical Properties**: Cleavage: Tenacity: Fracture:

Hardness = D(meas.) = D(calc.) =

Optical Properties: Color: Streak: Luster:

Optical Class:

**Cell Data**: *Space Group*:  $P\bar{1}$  . a = 5.759(1) b = 7.534(1) c = 5.279(1)  $\alpha = 93.44(3)^{\circ}$   $\beta = 91.27(3)^{\circ}$   $\gamma = 91.30(3)^{\circ}$ 

**X-Ray Diffraction Pattern**: Reaphook Hill, Martins Well, Flinders Ranges, South Australia, Australia.

7.577(100), 2.982(32), 2.880(27), 4.461(24), 3.771(14), 2.775(14), 3.158(13), 2.668(13)

## **Chemistry**:

**Polymorphism & Series**: Dimorph of Sergeysmirnovite.

Mineral Group: The magnesium-analogue of parahopeite.

Occurrence:

**Association**:

Distribution From Reaphook Hill, Martins Well, Flinders Ranges, South Australia, Australia.

Name: For the locality where the studied material was collected.

**Type Material**: South Australian Museum, Adelaide, South Australia, Australia (G34798).

**References**: (1) Miyawaki, R., F. Hatert, M. Pasero, and S.J. Mills (2019) IMA Commission on New Minerals, Nomenclature and Classification (CNMNC) Newsletter 47. New minerals and nomenclature modifications approved in 2018 and 2019. Mineral. Mag., 83(1), 146.