Clerite

Mn(Sb, As)₂S₄

Crystal Data: Orthorhombic. Point Group: 2/m 2/m 2/m. As irregular equant grains, to 0.2 mm, in aggregates.


Cell Data: Space Group: Pnam (by analogy to berthierite). a = 11.47(2) b = 14.36(3) c = 3.81(1) Z = 4

Cell Data: Space Group: Pnma

X-ray Powder Pattern: Vorontsovskoye deposit, Russia. 2.65 (100), 3.69 (90), 2.90 (80), 3.23 (70), 1.813 (50), 4.46 (40), 2.18 (40)

Chemistry:

<table>
<thead>
<tr>
<th>Element</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mn</td>
<td>13.1</td>
</tr>
<tr>
<td>As</td>
<td>4.4</td>
</tr>
<tr>
<td>Sb</td>
<td>51.2</td>
</tr>
<tr>
<td>S</td>
<td>30.8</td>
</tr>
<tr>
<td>Total</td>
<td>99.5</td>
</tr>
</tbody>
</table>

(1) Vorontsovskoye deposit, Russia; by electron microprobe, average of five analyses; corresponding to Mn₁₃.₅(Sb₁₇.₅As₀.₃)Σ=₂₉S₄.₀₀

Occurrence: In a hydrothermal gold deposit in limestone.

Association: Realgar, pyrite, alabandite, sphalerite, aktashite, routhierite, zinkenite, chalcostibite, orpiment, stibnite, cinnabar, tetrahedrite–tennantite, gold, greigite.

Distribution: From the Vorontsovskoye gold deposit, Serov district, Northern Ural Mountains, Russia [TL].

Name: To honor Onisima Yegorovicha Klera (1845–1920), Russian geologist, President of the Ural Society of Natural Sciences Amateurs, Ykaterinberg (Sverdlovsk), Russia.

Type Material: Ural Geological Museum, Mining Institute, Yekaterinburg (Sverdlovsk), Russia.


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