Coloradoite

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Crystal Data: Cubic. Point Group: 43m. Known only massive, granular.


Cell Data: Space Group: F43m. a = 6.453 Z = 4

X-ray Powder Pattern: Kalgoorlie, Australia.
3.74 (100), 2.29 (90), 1.949 (70), 1.318 (40), 1.484 (30), 1.244 (30), 1.090 (30)

Chemistry:

<table>
<thead>
<tr>
<th></th>
<th>(1)</th>
<th>(2)</th>
<th>(3)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hg</td>
<td>60.95</td>
<td>61.0</td>
<td>61.12</td>
</tr>
<tr>
<td>Te</td>
<td>39.38</td>
<td>38.7</td>
<td>38.88</td>
</tr>
<tr>
<td>Total</td>
<td>100.33</td>
<td>99.7</td>
<td>100.00</td>
</tr>
</tbody>
</table>

(1) Kalgoorlie, Australia; corresponding to Hg$_{0.98}$Te$_{1.00}$. (2) Do.; by electron microprobe, corresponding to Hg$_{1.00}$Te$_{1.00}$. (4) HgTe.

Occurrence: In hydrothermal tellurium-bearing precious metal veins.

Mineral Group: Sphalerite group.

Association: Altaite, calaverite, krennerite, petzite, gold, pyrite, chalcopyrite, sphalerite, galena, pyrrhotite, tetrahedrite–tennantite.

Distribution: In the USA, in Colorado, at the Good Hope mine, Vulcan, Gunnison Co.; in the La Plata district, La Plata Co.; and at the Keystone, Mountain Lion, Smuggler, and Ellen mines, Boulder Co. [TL]; from the Cresson mine, Cripple Creek district, Teller Co.; in California, at the Norwegian mine, near Tuttle town, and the Jamestown mine, Tuolumne Co.; in Nevada, at the Twin Creeks and Getchell mines, Potosi district, Humboldt Co.; from the Outlaw mine, Round Mountain district, Nye Co.; and at the Gus Schaye property, Olin house district, Washoe Co.; from the Mayflower mine, Tobacco Root Mountains, Madison Co., Montana. In Canada, at a number of mines in the Kirkland Lake district, in the Hemlo gold deposit, Thunder Bay district, and at Hollinger in the Porcupine district, Ontario; also found at the Ardeen mine and the Robb-Mountbay mine, Quebec. From the Jeronimo gold deposit, near Potrerrillos, Atacama, Chile. In the Uzel'ginsk deposit and the Yaman-Kasy Cu–Zn–pyrite deposits, Southern Ural Mountains, Russia. From Săcăriș, Romania. At the Zarsaran gold deposit, 35 km north of Takab, northwestern Iran. From Kalgoorlie, Western Australia. In the Emperor mine, Vatukoula, and in the Tuvatu Au–Ag–Te deposit, Viti Levu, Fiji Islands. At the Bulawan deposit, Negros Occidental, Philippines. From the Guilaizhuang gold deposit, Shandong Province, China. In the Commoner mine, 50 km west-southwest of Kadoma, Zimbabwe. Additional localities are known.

Name: For the Keystone and Mountain Lion mines, Magnolia, Magnolia district, and Smuggler mine, Ballarat district, Boulder Co., type localities in Colorado, USA.

Type Material: n.d.


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