Dimorphite

Crystal Data: Orthorhombic. Point Group: $2/m 2/m 2/m$. Dipyramidal by development of \{111\}; \{101\} and \{110\} are also well developed. Commonly in groups of tiny individuals.


Cell Data: Space Group: Pnma. a = 11.24 b = 9.90 c = 6.56 Z = 4

X-ray Powder Pattern: Solfatara, Italy.
4.89 (100), 2.14 (50), 1.620 (50), 3.91 (40), 5.64 (30), 3.07 (25), 2.94 (25)

Chemistry:

\[
\begin{array}{cccc}
\text{As} & 75.45 & 75.70 \\
\text{S} & 24.55 & 24.30 \\
\hline
\text{Total} & 100.00 & 100.00
\end{array}
\]

(1) Solfatara, Italy. (2) As$_4$S$_3$.

Occurrence: Deposited at a fumerolic vent at temperatures of about 70 $^\circ$C–80 $^\circ$C (Solfatara, Italy); formed in an ore deposit under secondary conditions (Chile).

Association: Realgar, sal ammoniac, sulfur, various sulfates (Solfatara, Italy); orpiment (Chile).

Distribution: In Italy, in Campania, from Solfatara di Pozzuoli, Campi Flegri, near Naples [TL], and on Vesuvius. In the Alacrán Ag–As–Sb mine, Pampa Larga district, Copiapó, Chile.

Name: From the Greek for two and form, in reference to the two forms in which the species was thought to occur.
