Dimorphite  \( \text{As}_4\text{S}_3 \)

\textbf{Crystal Data:} Orthorhombic. \textit{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.


\textbf{Cell Data:} \textit{Space Group:} \( P\text{nma} \). \( a = 11.24 \quad b = 9.90 \quad c = 6.56 \quad Z = 4 \)

\textbf{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)

\textbf{Chemistry:}

\begin{tabular}{lcc}
& (1) & (2) \\
\text{As} & 75.45 & 75.70 \\
\text{S} & 24.55 & 24.30 \\
\hline
Total & 100.00 & 100.00
\end{tabular}

(1) Solfatara, Italy. (2) \text{As}_4\text{S}_3.

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

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

\textbf{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.

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