

Parasymplesit z haldy dolu Marie u Staré Vožice (Česká republika)

Parasymplesite from the Marie Mine dump near Stará Vožice (Czech Republic)

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Abstract

A parasymplesite, monoclinic $\text{Fe}^{2+}_3(\text{AsO}_4)_2 \cdot 8\text{H}_2\text{O}$ was found in dump material of the Maria mine, belonging to an abandoned Ag-Pb-Zn ore deposit Stará Vožice-Ratibořské Hory (southern Bohemia, Czech Republic). Parasymplesite forms bluish-grey to greenish-grey hemispherical aggregates up to 2 mm in size in association with arsenopyrite and pyrite. Parasymplesite is monoclinic, space group C2/m with a 10.321(9), b 13.522(9), c 4.773(7) Å, β 105.0(8)°, V 643.4(9) Å³. Its chemical composition corresponds to empirical formula: $(\text{Fe}_{2.91}\text{Mn}_{0.03}\text{Al}_{0.02}\text{K}_{0.01})_{\Sigma 2.97}[(\text{AsO}_4)_{1.79}(\text{PO}_4)_{0.21}]_{\Sigma 2.00} \cdot 8\text{H}_2\text{O}$. Its origin is associated with weathering of arsenopyrite inside the mine dump material.

Key words: *parasymplesite, arsenopyrite, powder X-ray diffraction data, unit-cell parameters, chemical composition, Marie mine dump, Stará Vožice, South Bohemia, Czech Republic*

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