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Příspěvek k poznání chemismu rtuťových tetraedritů: lokality Jedová hora (Česko), Rudňany, Rožňava, Nižná Slaná, Slovinky (Slovensko) a Maškara (Bosna a Hercegovina)

A contribution to knowledge of chemistry of mercurian tetrahedrites: localities Jedová hora (Czech Republic), Rudňany, Rožňava, Nižná Slaná, Slovinky (Slovakia) and Maškara (Bosnia and Herzegovina)

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Abstract

In this research 18 samples of tetrahedrite containing mercury were collected from six localities in the Czech Republic, Slovakia and Bosnia. The samples were subjected to detail microprobe and x-ray diffraction analyses and subsequent refinement of unit-cell parameters. Tetrahedrites from the Jedová Hora locality (Czech Republic) are rich in mercury (1.46 - 1.73 *apfu*); tetrahedrites from the Rudňany deposit (Slovakia) have a variable content of Hg, Fe and Zn (Hg rich samples with 1.47 - 1.79 *apfu* of Hg; Fe rich sample with 1.06 *apfu* of Fe and Zn rich sample with 1.79 *apfu* of Zn); tetrahedrites for the Rožňava deposit (Slovakia) are mostly Fe rich (1.53 - 1.75 *apfu*); Hg rich sample from Rožňava contains 1.65 *apfu* of Hg. Two samples of tetrahedrites from the Nižná Slaná deposit (Slovakia) are rich in Hg (1.07 and 1.39 *apfu*); analyzed sample from the Slovinky deposit (Slovakia) is rich in Zn (1.13 *apfu*). Samples from the Maškara deposit (Bosnia) contain more Fe than Hg (Fe: 0.93 - 1.33 *apfu*; Hg: 0.19 - 0.76 *apfu*). The mercury content in the samples showed a positive linear correlation to the unit cell parameters (0.19 *apfu* ~ 10.32 Å to 1.79 *apfu* ~ 10.46 Å).

Key words: *cinnabar, mercury, mercurian tetrahedrite, chemical composition, unit-cell parameters*

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