

Zeolitová mineralizace z Heřmanic u České Lípy (Česká republika)

Zeolite mineralization from Heřmanice near Česká Lípa (Czech Republic)

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Abstract

A new interesting occurrence of zeolite mineralization was found in cavities of tephritic basaltoids at unnamed hill (453 m a. s. l.), ca. 300 m WNW of the village Heřmanice near Česká Lípa, Northern Bohemia (Czech Republic). Lévyne-Ca is typical and very abundant zeolite species at this locality, it forms colourless to white tabular crystals up to 9 mm in size. Its unit-cell parameters (for trigonal space group $R\bar{3}m$) refined from the powder X-ray data are: a 13.363(4) Å, c 22.995(2) Å and V 3556(1) Å³. Chemical analyses of lévyne-Ca correspond to the empirical formula $(Ca_{2.80}K_{0.60}Na_{0.09})_{\Sigma 3.49}(Si_{11.77}Al_{6.21})O_{36} \cdot 17 H_2O$. In association, chabazite-Ca, erionite-Ca, analcime, phillipsite-Ca, thomsonite-Ca, cowlesite and gismondine were found, for all these minerals physical and chemical data are given in the paper.

Key words: analcime, chabazite-Ca, cowlesite, erionite-Ca, gismondine, lévyne-Ca, phillipsite-Ca, thomsonite-Ca, tephrite, powder X-ray diffraction data, unit-cell parameters, chemical composition, Heřmanice near Česká Lípa, Czech Republic

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