

Synthesis of phosphorus- and arsenic-bearing feldspars

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The synthesis of phosphorus- and arsenic-bearing sodium (potassium) feldspars have been carried out in hydrothermal conditions at $T=400\div 600^{\circ}\text{C}$, $P=1.5$ kbar. The microprobe analysis of synthetic P-, As-bearing feldspars was carried out. Cell parameters were calculated from X-ray data. It is shown a good correlation between cell parameters of different feldspars and average means of radius of tetrahedral cations.

Key words: synthesis, feldspars, cell parameters, solid solutopns

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