CRYSTAL STRUCTURE OF AgRSb\textsubscript{2} (R=Pr, Nd, Gd, Dy, Ho, Er)

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Abstract

The crystal structures of the AgRSb\textsubscript{2} (R=Pr, Nd, Gd, Dy, Ho, Er) compounds were determined by X-ray powder diffraction using Rietveld method. The investigated compounds crystallize in the tetragonal, space group P4/nmm (No.129) with the AsCuSiZr structure type. The X-ray powder diffraction patterns of the AgDySb\textsubscript{2} are presented and its cell parameters are a=4.2656 (2) Å, c=10.455(6)Å.