

CRYSTAL STRUCTURE OF AgRSb₂ (R=Pr, Nd, Gd, Dy, Ho, Er)

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Abstract

The crystal structures of the AgRSb₂ (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 AgDySb₂ are presented and its cell parameters are $a=4.2656(2) \text{ \AA}$, $c=10.455(6) \text{ \AA}$.