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Closing Some Gaps of Knowledge: Single Crystals of $\text{Pr}_2\text{O}[\text{SiO}_4]$ und $\text{Sm}_2\text{O}[\text{SiO}_4]$ with the A-Type Structure

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Syntheses with lanthanoid metals in glassy silica ampoules often tend to yield oxosilicates as by-products. Thus, the two presented silicates $\text{Pr}_2\text{O}[\text{SiO}_4]$ and $\text{Sm}_2\text{O}[\text{SiO}_4]$ were also obtained from different reactions including the elemental lanthanoids, but with other target compounds. Both crystallize isostructurally to the $\text{Ln}_2\text{O}[\text{SiO}_4]$ series adapting the known A-type structure.

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