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The crystal structure of single crystalline $\text{PrCa}_4\text{O}[\text{BO}_3]_3$

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The presented work, shows the structure solution and refinement of $\text{PrCa}_4\text{O}[\text{BO}_3]_3$ from single crystal X-ray diffraction data. A $\text{PrCa}_4\text{O}[\text{BO}_3]_3$ single crystal was grown by the Czochralski method. The crystal structure was solved from single crystal X-ray diffraction data in the monoclinic crystal system with space group $C1m1$ (No. 8). The lattice parameters are $a = 8.1293(6) \text{ \AA}$, $b = 16.062(1) \text{ \AA}$, $c = 3.6023(2) \text{ \AA}$ and $\beta = 101.371(2)^\circ$. A disorder between Pr and Ca of up to 6.0% have been refined.

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