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The crystal structure of single crystalline PrCa4O[BO3]3

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The presented work, shows the structure solution and refinement of PrCa4O[BO3]3 from single crystal X-ray diffraction data. A PrCa4O[BO3]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) Å, b = 16.062(1) Å, c = 3.6023(2) Å and $\beta = 101.371(2)^{\circ}$. A disorder between Pr and Ca of up to 6.0% have been refined.

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