Question #83862, Chemistry / General Chemistry | for completion

The ionic radius of Sn2+ is 136 pm. The ionic radius of Br– is 182 pm Assuming SnBr2 is an ionic solid, predict the crystal structure using the radius ratio rules.

Answer:

Definition of the Radius Ratio Rule

Radius Ratio refers to as the ration of smaller ionic radius (cation) by the ratio of larger ionic radius (anion). Hence, Radius ration $\rho = r_s/r_1$.

 $\rho = r_s/r_1 = 136/182 = 0.7472$

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