

“Answer on Question #59957, Chemistry / General Chemistry”

What is the boiling point of a solution containing 52 grams of MgSO_4 and 334 grams H_2O

$$\Delta t = \frac{k \cdot m_{\text{MgSO}_4} \cdot 1000}{M_{\text{MgSO}_4} \cdot m_{\text{H}_2\text{O}}}$$

$$\Delta t = \frac{0,52 \cdot 52 \cdot 1000}{120 \cdot 334} = 0.675^\circ$$

$$T = 373 + 0.675 = 373.675\text{K} (100.675^\circ\text{C})$$