

An unknown amount of $\text{C}_6\text{H}_{12}\text{O}_6$ is dissolved in 150.0 g of water. The boiling point of the solution is $102.1\text{ }^\circ\text{C}$. How many grams of $\text{C}_6\text{H}_{12}\text{O}_6$ were used? ($K_b = 0.512\text{ }^\circ\text{C/m}$)

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