Answer on the question #59879, Chemistry / Other

Question:
Calculate the weight/volume percent composition, or %(W/V), of 455 ml of solution containing 15.0 g of sucrose.

Solution:
Weight/volume percent is defined as:

$$w/v\% = \frac{mass\ of\ the\ solute\ (g)}{volume\ of\ solution\ (mL)} \cdot 100\%$$

$$w/v\% = \frac{15.0\ g}{455\ mL} \cdot 100\% = 3.3\ \%$$

Answer: 3.3%