## Answer on Question \#51901 - Chemistry - Other

## Question

3.47 g sodium carbonate was dissolved in a 250 millilitre standard flask. What is the concentration of the resulting solution
0.13 M
0.52M
0.66M
0.40M

## Answer:

Molar concentration of the solution is:

$$
C=\frac{n}{V}=\frac{m \cdot M}{V}
$$

M - Molar mass of sodium carbonate, $\mathrm{M}\left(\mathrm{Na}_{2} \mathrm{CO}_{3}\right)=106 \mathrm{~g} / \mathrm{mol}$.

$$
C=\frac{m \cdot M}{V}=\frac{3.47 \cdot 106}{0.250}=0.13 \mathrm{~mol} / \mathrm{L}
$$

Answer: 0.13 M

