

Answer on Question #75123, Chemistry / General Chemistry

What is the calculated molarity of 2.5 L of a solution containing 2.34 g of dissolved NaCl?

Solution

Find the amount of NaCl in 2.5L of a solution:

$$v = \frac{m}{M} = \frac{2.34}{58.5} = 0.04 \text{ (mole)}$$

Find the molarity:

0.04 mole --- 2.5L

X mole --- 1L

$$C = \frac{0.04}{2.5} = \mathbf{0.016 \text{ (mole/L)}}$$

Answer

0.016 mole/L – the calculated molarity of 2.5 L of a solution containing 2.34 g of dissolved NaCl.

Answer provided by AssignmentExpert.com