

## Percent (%)

# Concentration Calculation- **W/W<sub>eight</sub>**

$$\text{weight of water (solvent)} = 150 \text{ g}$$

$$\begin{aligned}\text{Total weight of solution} &= \text{weight of NaCl} + \text{weight of water} \\ &= 2.5 \text{ g} + 150 \text{ g} \\ &= 152.5 \text{ g}\end{aligned}$$

$$\% \text{ w/w} = \frac{2.5 \text{ g (NaCl)}}{152.5 \text{ g (solution)}} \times 100$$

$$= 1.639 \%$$

$$\text{Concentration of NaCl solution} = 1.639 \% \text{ w/w}$$

when 2.5 g of NaCl dissolved in 150 ml of water  
then the concentration of solution = 1.639% w/w