

Convert 10% w/w → _____% w/v

The specific gravity of the solution is 1.1.

If a solution has a specific gravity of 1.1 that means that there are 1.1g in 1mL of solution. If the drug solution is 10% w/w, then there are 10g of drug per 100g solution.

$$\frac{10g \text{ drug}}{100g \text{ solution}} \times \left(\frac{1.1g \text{ solution}}{1mL \text{ solution}} \right) = 11g \text{ drug} / 100mL \text{ solution} = \underline{\underline{11\% w/v}}$$

Convert 15% w/v → _____% w/w

The specific gravity of the solution is 0.91.

There are 15g of drugs in 100mL of solution.

$$\frac{15g \text{ drug}}{100mL \text{ solution}} \times \left(\frac{1mL \text{ solution}}{0.91g \text{ solution}} \right) = \underline{\underline{16.5\% w/w}}$$