

- How many grams of sugar are needed to make 100 ml of a 20% solution?
- What is the concentration in mg% of 100mg of NaCl dissolved in 500 ml of solution?
- How many grams of sugar are needed to make 150 ml of a 30% solution?
- I have 250 ml of a 9% NaCl solution (saline). How many grams of salt do I have?
- How many grams of sugar are needed to make 50 g of a 3% solution?
- How would I make up 500 ml of a 1M solution of NaCl?
- How would I make up 250 ml of a 3M solution of NaCl?
- How much NaCl would I need to make up 10 ml of a 6M solution?
- How many grams of CaCl_2 would I need for 100 ml of a 2M solution?
- I have 29.25 g NaCl in 500 ml. What is its molarity?
- Calculate the molar concentration of the following solutions:
 - 36.5 g HCl in 1 L of solution.
 - 36.5 g of HCl in 5 L of solution.
 - 36.5 g of HCl in 0.25 L of solution.
 - 73 g of HCl in 1 L of solution.
 - 73 g of HCl in 5 L of solution.
 - 73 g of HCl in 0.25 L of solution.
- Calculate the weight of solute contained in each of the following solutions:
 - 250 ml of a 1M solution of H_2SO_4 .
 - 3000 ml of 0.5M solution of $\text{HC}_2\text{H}_3\text{O}_2$.
 - 2 L of 1.M solution of H_2CO_3 .
 - 100 ml of 2M solution of KOH.
- Calculate the volume of solution (1.5M) that would contain:
 - 40 g of NaOH.
 - 18.5 g of $\text{Ca}(\text{OH})_2$.
 - 7.3 g of HCl.
 - 15.5 g of H_2CO_3 .
- A solution is prepared by dissolving 5.64 g of glucose in 60 g of water. Calculate the molality of the solution.
- What would be the molality of a solution (density 1.218 g/ cc) made of 49 g of H_2SO_4 in 1 litre of its solution?
- 214.2 g of sugar syrup contains 34.2 g of sugar. Calculate the molality of the solution.
- The weight of 2.03M solution of CH_3COOH (M.Wt. = 60) in water is 6.09 g. Calculate the volume of the solution.
- Calculate the molality and mole fraction of the solute in an aqueous solution containing 6 g of urea per 500 g of water (M.Wt. of urea = 60).
- Calculate the molarity of each of the ions in a solution when 3.0 L of 4.0M NaCl and 4.0 L of 2.0M CoCl_2 are mixed and diluted to 10 L.
- What volume of 96% H_2SO_4 solution whose density is 1.83 g/ml, is required to prepare 4.0 L of 3.0M H_2SO_4 solution?
- What will be the molality of 7.45 g of KCl is dissolved in 100 g of water?
- Calculate the molarity of 15 g of acetic acid dissolved in 300 ml of its solution.
- Find the mole fraction of 250 g of AlCl_3 (aq) solution, having 53.25 g of the solute.
- Calculate the mole fraction of 8 g of methane dissolved in 39 g of benzene.
- Calculate the molarity and molality of 4.9 grams of sulphuric acid dissolved in 100 grams of water to make 100 mL. of its solution.