

Concentration Units: Molarity

$$M = \frac{\text{moles solute}}{L \text{ solution}}$$

1. What is the molarity of a solution prepared with 2.65 g of silver nitrate (AgNO_3) and then diluted with water to 500.00 mL?
2. How many g of sodium hydroxide, NaOH , are required to prepare 50.00 mL of solution that is 0.464 M NaOH ?
3. How many grams of H_2SO_4 are present in 1.25 liters of a 0.855 M solution?
4. How many mL of 0.855 M K_2CrO_4 is required to prepare 25.00 mL of a solution that is 0.125 M K_2CrO_4 ?
5. If 72.50 mL of 2.64 M HCl is added to a 250.00 mL volumetric flask and diluted to the mark, what is the concentration of the solution?