

Molarity & Stoichiometry

Example One

How many grams of KBr must be dissolved in 0.4155 L of solution in order to give a molarity of 0.185 M?

Example Two

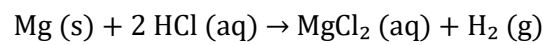
What is the molarity of a solution of lithium nitrate if 10.0 grams of LiNO_3 were dissolved in 500.0 mL of solution? The molar mass of LiNO_3 is 68.95 g/mol.

Example Three

What total volume of solution is needed to generate a 1.00 M solution of NaCl using 10.0 grams of NaCl? The molar mass of NaCl is 58.44 g/mol

Example Four

What is the maximum mass of magnesium that could completely react with 50.0 mL of 6.00 M HCl according to the reaction below?



Example Five

What is the molarity of nitric acid HNO_3 if 15.0 mL of the solution is completely neutralized by 38.5 mL of 0.150 M NaOH?

Example Six

A 25.0 mL solution of sulfuric acid is completely neutralized by 18 mL of 1.0 M LiOH. What is the concentration of the H_2SO_4 solution?

Example Seven

What is the maximum mass of silver that can be obtained from a reaction between 5.00 g of Copper and 100.0 mL of 2.00 M silver nitrate solution.

