

Molarity Practice Problems

1. How many grams of potassium carbonate are needed to make 200.0 mL of a 2.5 M solution?

69 g

2. What is the concentration of a solution with a volume of 2.5 liters containing 660 grams of calcium phosphate?

0.84 M

3. How many grams of copper (II) fluoride are needed to make 6.7 liters of a 1.2 M solution?

820 g

4. What is the concentration of a solution with a volume of 9.0 mL that contains 2.0 grams of iron (III) hydroxide?

2.1 M

5. How many grams of manganese (IV) oxide are needed to make 5.6 liters of a 2.1 M solution?

1.0×10^3 g

6. What is the concentration of a solution with a volume of 3.3 mL that contains 12 grams of ammonium sulfite?

31 M