

1. A solution contains 12.8 g of MgF_2 in 145 g of H_2O . What is the mass percent (m/m)% of this solution?

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2. A soft drink contains 0.035 mL of sodium in 315 mL of H_2O . What is the volume percent (v/v)% of this solution?

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3. Ocean water contains 3.50% (m/m) NaCl. How much NaCl can be obtained from 274 g of ocean water?

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4. A solution is 14.9% (m/m) sucrose. How many grams of solution would be needed to obtain 35.6 g of sucrose?

5. A solution is 25.5% (v/v) NaNO_3 . How many mL of water would be needed to prepare a solution that contained 18.2 mL of NaNO_3 ?

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6. A solution is 3.58% (m/m) KOH . How many grams of KOH are needed to prepare a solution that contains 65.5 g of H_2O ?

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7. A solution is 16.8% (m/m) gold (Au). How many atoms of gold are in 125.2 g of the solution?

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8. A solution is 21.8% (m/m) H_2SO_4 . If the density of the solution is 1.056 g/mL, what is the molarity of this solution in mol/L?