

Calculate the following, answers must have units:

1. Calculate the [molar] of a solution of H_2SO_4 which has a [mass] of 14.27 g/dm³.

[sol'n_{mol}] =

2. Calculate the [molar] of a solution (mol/dm³) of NaCl which contains 5.3g of sodium chloride dissolved in distilled water to make 250cm³ of solution. (don't clear)

[sol'n_{mol}] =

3. Determine how many moles of K_3PO_4 are present in 250cm³ of a potassium phosphate solution which has a [molar] of 0.2 mol/dm³.

of mols =

4. You wish to make a magnesium chloride solution with a [molar] of 0.6 mol/dm³ but you only have 3.5 g of magnesium chloride. What is the maximum volume of solution you can make? (don't clear)

volume (2dp) =

5. You wish to make a copper sulfate solution with a [molar] of 0.5 mol/dm³ but you only have 25 g of copper sulfate. What is the maximum volume of solution you can make? (don't clear)

volume =