## Question \#70676

Calculate the mass (in grams) of magnesium Chloride present in a 0.1575 m soulution.

## Solution:

$0,1575 \mathrm{~m}$ solution means that there're 0.1575 moles of $\mathrm{MgCl}_{2}$ in 1 L of water.

Molar mass of $\mathrm{MgCl}_{2}$ is the sum of Magnesium atomic mass and 2 masses of Chlorine:
$24+2 \times 35.5=95$ (g/mole)

95 g of $\mathrm{MgCl}_{2}-1$ mole

X g of $\mathrm{MgCl}_{2}-0.1575$ moles
$X=95 \times 0.1575=14,96(\mathrm{~g})$.

## Answer:

There are $14,96 \mathrm{~g}$ of magnesium chloride in 1 L of 0.1575 m solution.

Answer provided by AssignmentExpert.com

