## **Question #70676**

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

## Solution:

0,1575m solution means that there're 0.1575 moles of  $MgCl_2$  in 1L of water.

Molar mass of MgCl<sub>2</sub> is the sum of Magnesium atomic mass and 2 masses of Chlorine:

24 + 2×35.5 = 95 (g/mole)

95 g of  $MgCl_2 - 1$  mole

X g of  $MgCl_2 - 0.1575$  moles

X = 95×0.1575 = 14,96 (g).

## Answer:

There are 14,96 g of magnesium chloride in 1L of 0.1575 m solution.

Answer provided by AssignmentExpert.com