

Answer on Question #65151 - Chemistry - General Chemistry

Question

How many moles of ions are produced when one mole of solid magnesium chloride (MgCl_2) dissolves in solution (.050M)

Solution:



$$\nu(\text{Mg}^{2+}) = \nu(\text{MgCl}_2) = 1 \text{ mol}$$

$$\nu(\text{Cl}^-) = 2 * \nu(\text{MgCl}_2) = 2 \text{ mol}$$

$$\text{Total number of moles: } \nu(\text{ions}) = \nu(\text{Mg}^{2+}) + \nu(\text{Cl}^-) = 3 \text{ (mol)}$$

Answer: There are 3 moles of ions in this solution.

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