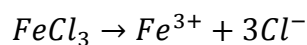


Answer on Question #71089 – Chemistry – General Chemistry

Task

How many moles of ions are in a solution of 7.4 moles FeCl₃ in 500mL water?

Solution



$$v(Fe^{3+}) = v(FeCl_3) = \frac{1}{3}v(Cl^-)$$

$$v(FeCl_3) = 7.4 \text{ moles.}$$

$$v(Cl^-) = 22.2 \text{ moles.}$$

$$v(\text{ions}) = v(Fe^{3+}) + v(Cl^-) = 29.6 \text{ moles.}$$

Answer

29.6 moles.

Answer provided by <https://www.AssignmentExpert.com>