#81778 Chemistry, Other

What would the molarity of the final solution be if (1.150×10^{-2}) L of (2.53×10^{0}) M HCl is placed in a (6.0000×10^{2}) mL volumetric flask and diluted to the mark with distilled water?

Answer:

The amount of moles of the reactant must be the same in both solutions: $0.015 \cdot 2.53 = 600 \cdot X$ $0.029 = 600 \cdot X$ $C_M \ (HCI) = X = 0.00005 \ M$

Answer provided by www.AssignmentExpert.com