Answer on Question #50479, Chemistry, Other

A titration of 15.0 cm 3 of household ammonia, NH $_3$, required 3870 cm 3 of 8.0 M HCl. Calculate the molarity of the ammonia.

Solution:

 $NH_3 + HCI \rightarrow NH_4CI$

$$n = C \times V$$

$$n(NH_3) = n(HCl)$$

$$C_1 \times V_1 = C_2 \times V_2$$

$$C_2 = \frac{C_1 \times V_1}{V_2} = \frac{3870 \text{ cm}^3 \times 8.0 \text{ M}}{15 \text{ cm}^3} = 2064 \text{ M}$$

Answer:

2064 M it is impossible to have such concentration! In Question is a mistake.

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