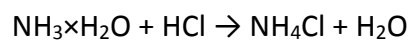


Answer on Question #50367, Chemistry, Other

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:

$$n = c \times V$$



$$n_1 = n_2$$

$$c_1 \times V_1 = c_2 \times V_2$$

$$c_2 = \frac{c_1 \times V_1}{V_2}$$

$$c_{\text{NH}_3} = \frac{8.0 \text{ M} \times 3870 \text{ cm}^3}{15 \text{ cm}^3} = 2064 \text{ M}$$

Answer:

molarity of the ammonia is 2064 M

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