

## Molality Practice

1. Calculate the molarity of each of the following solutions:

a. 12.4 g KCl in 289.2 mL solution

$$M = \frac{n}{V}$$
$$12.4 \text{ g KCl} \times \frac{1 \text{ mole KCl}}{74.6 \text{ g KCl}} = 0.166 \text{ mole KCl}$$

$$289.2 \text{ mL} \times \frac{1 \text{ L}}{1000 \text{ mL}} = 0.2892 \text{ L}$$

$$\frac{0.166 \text{ mole}}{0.2892 \text{ L}} = 0.57 \text{ M}$$

## Practice Problem

b. 16.4 g  $\text{CaCl}_2$  in 0.614 L solution

$$M = \frac{n}{V}$$
$$16.4 \text{ g CaCl}_2 \times \frac{1 \text{ mole CaCl}_2}{111.1 \text{ g CaCl}_2} = 0.148 \text{ mole CaCl}_2$$

$$M = \frac{0.148 \text{ mole}}{0.614 \text{ L}} = 0.24 \text{ M}$$

# Molarity Molality Practice Problems Answers

**F Rizvi**



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