Answer to Question #62203, Chemistry / Other

What volume of 1.75% (w/v) glucose can be prepared from 500g of glucose?

Answer:

Diluted solution, density \approx 1.

$$w = \frac{m_{glucose}}{V_{solution}}$$
$$V_{solution} = \frac{m_{glucose}}{w} = \frac{500 \ g}{0.0175 \ \frac{g}{mL}} = 28571.4 \ mL = \mathbf{28.6 \ L}$$

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