

Answer on Question #63711 - Chemistry – Physical Chemistry

a solution of NaOH (mw=40) is prepared by dissolving 20 grams of the base in enough water to make one liter of solution. Calculate the molarity of this solution.

Solution

$$C_M = \frac{v}{V} = \frac{m}{M \times V} = \frac{20 \text{ g}}{40 \frac{\text{g}}{\text{mol}} \times 1 \text{ L}} = 0.5 \text{ M}$$

Answer: 0.5M

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