Answer on Question 77075 in General Chemistry

.m (CaC
$$l_2$$
)=10.0 g

$$V(H_2O)=500 \text{ mL}=0.5 \text{ L}$$

$$C_M=?$$

Solution:

$$C_M = \frac{\text{m (CaC}l_2)}{\text{M}_r (\text{CaC}l_2) \times \text{V}} = \frac{10}{111 \times 0.5} = 0.18 \text{ M}$$

Find
$$M_r(CaCl_2) = A_r(Ca) + 2A_r(Cl) = 40 + 2 \times 35.5 = 111$$

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