

Answer on Question #54277, Chemistry, General Chemistry

Task:

Which is of higher concentration: 1 molal solution or 1 molar solution

None of the above

1 molal solution

1 molar solution

They are equivalent

Answer:

$$C_M = \frac{v}{V} \qquad C_m = \frac{v}{m}$$

For watery solutions 1 molal and 1 molar solutions will be equal, because water density is $\rho=1$ ml/cm³.