

Sig Figs Assignment

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$$\begin{array}{r} \textcircled{1} \quad 92.452 \\ + 8.97 \\ + 0.08 \\ + 17.66 \\ \hline \end{array}$$

$$119.162 = 119.16$$

$$\textcircled{2} \quad \log(7.4 \times 10^{-5}) = [-4.13076828] = -4.13$$

$$\textcircled{3} \quad 18(1.67262 \times 10^{-27} \text{ kg}) = 3.010716 \times 10^{-26} \text{ kg}$$

$$22(1.674927 \times 10^{-27} \text{ kg}) = 3.6848394 \times 10^{-26} \text{ kg}$$

$$18(9.109 \times 10^{-31} \text{ kg}) = 1.63962 \times 10^{-29}$$

$$\begin{array}{r} 3.010716 \times 10^{-26} \\ + 3.6848394 \times 10^{-26} \\ + 0.00163962 \times 10^{-26} \\ \hline 6.697195 \times 10^{-26} \end{array}$$

$$\textcircled{4} \quad \ln\left(\frac{3.86}{1.00}\right) = \frac{362.8 \times 10^3}{8.314} ((298.1)^{-1} - (x)^{-1})$$

$$1.350667183 = 43637.23839 (0.003354579 - x^{-1})$$

$$3.095216914 \times 10^{-5} = 0.003354579 - x^{-1}$$

$$0.0033236268 = x^{-1} = \frac{1}{x}$$

$$x = 300.8761365 = 300.9$$