

Problems in Conversion

- 1) The density of propane is $36.28 \frac{lb}{ft^3}$, convert this to $\frac{Kg}{m^3}$?
Knowing $1lb = 454g$, $1in = 2.54cm$ and $1ft = 12in$
ans 581.672
- 2) A certain medication is set to deliver through an IV at a rate of $3 \frac{mg}{min}$. what is this rate in $\frac{ng}{s}$?
ans 5×10^4
- 3) A drug is administered at a rate of $14.5 \frac{cL}{hour}$. what is this rate in $\frac{\mu L}{s}$?
ans 40.3
- 4) An automobile tire has a pressure of $32psi$ that is in $\frac{pounds}{in^2}$, what is the pressure in $\frac{g}{cm^2}$?
Knowing $1lb = 454g$, $1in = 2.54cm$
ans 2.3×10^3
- 5) If $1g$ of Ammonia (as NH_3) is equal to $0.005587 mol$, express $1 \frac{mg}{dL}$ of Ammonia in terms of $\frac{\mu mol}{L}$?