

Answer on Question #80331 - Chemistry – General Chemistry

For calculating density lets use the formula:

$\rho = m / V$, where ρ - density[g/ml], m – weight[g], V – volume[ml].

At the first, 2.755lbs transfer to the grams(1lbs = 0.454kg) : $m = 2.755 * 0.454 = 0.907\text{kg}$
 $= 907\text{g}$;

At the second, 1 quart(american) = 0,94631 = 946.3ml;

Now, find the ρ : $\rho = 907 / 946.3 \sim 0.9585 \text{ g/ml}$.

Answer: $\rho = 0.9585 \text{ g/ml}$.

Answer provided by AssignmentExpert.com