

Participation Assignment

CHEM 1090-General Chemistry I

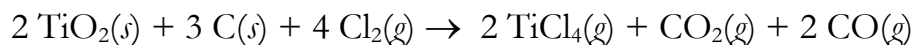
Name:

#9

Section: 32, TR

Due Date: Tuesday 2/18/2020

1a. Calculate the mass in grams of titanium(IV) chloride, TiCl_4 , produced when $9.70 \times 10^8 \text{ g TiO}_2$, are reacted with an excess of carbon and chlorine:



1b. If $2.17 \times 10^9 \text{ g TiCl}_4(g)$ are actually produced, what is the percent yield?