Question #74310 - Chemistry - General Chemistry

How many grams of CO2 will be produced from the cumbustion of 25 liters of C6H14 at AGO assuming that Oxygen is in excess?

Answer

Firstly write chemical equation:

 $2 C_6 H_{14} + 19 O_2 = 12 CO_2 + 14 H_2 O_2$

M(CO₂) = 44 g/mol; V_m=22.4 l/mol

If Oxygen is excess reagent, then:

 $m(CO_2) = V(C_6H_{14})xM(CO_2)/V_m = 25x(12x44)/(2x22.4) = 294.64 g$

Answer provided by AssignmentExpert.com