Answer on Question #40472 – Chemistry – Other

For the following chemical reaction, what mass of calcium carbonate (in grams) will be produced from 5.03 mol of sodium carbonate?

Na2CO3 + Ca(NO3)2 ---> CaCO3 + 2NaNO3
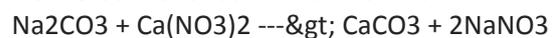
Answer:

From reaction we see n (Na2CO3) = n (CaCO3).

So, as result of this reaction 5.03 mol of CaCO3 is produced.

The next step is finding of mass of CaCO3: m (CaCO3) = n (CaCO3) *M (CaCO3) = 5.03*100 = 503gr.