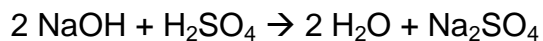


Stoichiometry Practice Worksheet

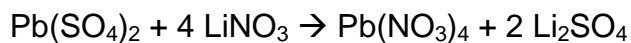
Solve the following stoichiometry grams-grams problems:

- 1) Using the following equation:



How many grams of sodium sulfate will be formed if you start with 200.0 grams of sodium hydroxide and you have an excess of sulfuric acid?

- 2) Using the following equation:



How many grams of lithium nitrate will be needed to make 250.0 grams of lithium sulfate, assuming that you have an adequate amount of lead (IV) sulfate to do the reaction?

Solutions for the Stoichiometry Practice Worksheet:

When doing stoichiometry problems, people are frequently worried by statements such as “if you have an excess of (compound X)”. This statement shouldn’t worry you... what it really means is that this isn’t a limiting reagent problem, so you can totally ignore whatever reagent you have an excess of. Don’t even give it a second thought, because if you do, you’ll run into trouble.

- 1) Using the following equation:



How many grams of sodium sulfate will be formed if you start with 200.0 grams of sodium hydroxide and you have an excess of sulfuric acid?

355.3 grams of Na_2SO_4

200.0 g NaOH	1 mol NaOH	1 mol Na_2SO_4	142.1 g Na_2SO_4
	40.00 g NaOH	2 mol NaOH	1 mol Na_2SO_4
= 355.3 g			

- 2) Using the following equation:



How many grams of lithium nitrate will be needed to make 250.0 grams of lithium sulfate, assuming that you have an adequate amount of lead (IV) sulfate to do the reaction?

313.5 grams of LiNO_3

250.0 g Li_2SO_4	1 mol Li_2SO_4	4 mol LiNO_3	68.9 g LiNO_3
	109.9 g Li_2SO_4	2 mol Li_2SO_4	1 mol LiNO_3
= 313.5 g			