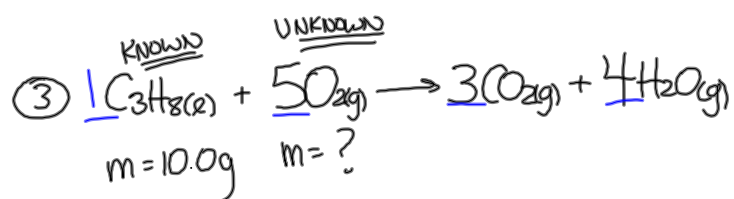


Homework - Worksheet



Step 1: Moles Known

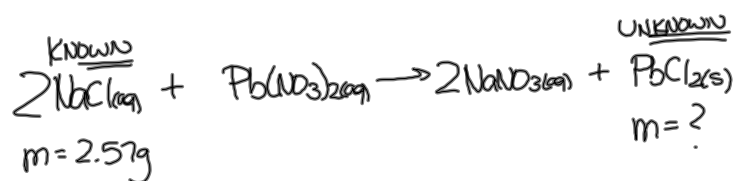
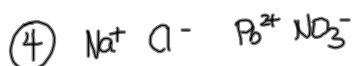
$$10.0\text{g C}_3\text{H}_8 \times \frac{1 \text{ mol C}_3\text{H}_8}{44.11 \text{ g C}_3\text{H}_8} = 0.227 \text{ mol C}_3\text{H}_8$$

Step 2: Moles Unknown

$$0.227 \text{ mol C}_3\text{H}_8 \times \frac{5 \text{ mol O}_2}{1 \text{ mol C}_3\text{H}_8} = 1.134 \text{ mol O}_2$$

Step 3: Mass Unknown

$$1.134 \text{ mol O}_2 \times \frac{32.00 \text{ g O}_2}{1 \text{ mol O}_2} = \boxed{36.3 \text{ g O}_2}$$



$$2.57\text{g NaCl} \times \frac{1 \text{ mol NaCl}}{58.44 \text{ g NaCl}} \times \frac{1 \text{ mol PbCl}_2}{2 \text{ mol NaCl}} \times \frac{278.09 \text{ g PbCl}_2}{1 \text{ mol PbCl}_2}$$

$$= \boxed{6.12 \text{ g PbCl}_2}$$

Worksheet #2 - Gravimetric Stoichiometry

1) 400.4 g SO_2

4) 150 g NaOH

2) 17 kg C

5) 690 g AuCl_3

3) 408 g CO

6) 11 g NH_3

Worksheet