

Answers to problems in page 304

Answers to Practice Problems A

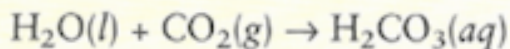
- a. 0.670 mol O₂
b. 1.34 mol H₂O
- a. 6.60 mol Al
b. 6.60 mol Fe
c. 3.30 mol Al₂O₃

Homework

GENERAL

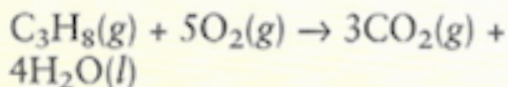
Additional Practice

1. How many moles of H₂CO₃ can form when 2.57 mol CO₂ reacts with excess H₂O?



Ans. 2.57 mol H₂CO₃

2. How many moles of O₂ are necessary to completely burn 4.33 mol C₃H₈? How many moles of CO₂ form? How many moles of H₂O form?



Ans. 21.6 mol O₂; 13.0 mol CO₂; 17.3 mol H₂O

3. In the combustion of propane, how many moles of C₃H₈ are needed to combine completely with 2.96 mol O₂? How many moles of CO₂ form? How many moles of H₂O form? Ans.

0.592 mol C₃H₈; 1.78 mol CO₂; 2.37 mol H₂O

 Logical