

Directions: Match each item with the correct statement below.

a. +

b. $\rightarrow$

c. (s)

d. (l)

e. (aq)

f. $\xrightarrow{\Delta}$

g. $\xrightarrow{h\nu}$

h. (g)

1. _____ Indicates a use of a catalyst in a reaction.
2. _____ Designates a reactant or product in the liquid state
3. _____ Used to separate two reactants or two products
4. _____ Designates a reactant or product in the solid state
5. _____ Indicates that heat is supplied to the reaction
6. _____ Designates a reactant or product in the gaseous state
7. _____ Indicates that a reactant or product is dissolved in water
8. _____ "Yields," separates reactants from products

Directions: For each question, read the statement and select the best response. Write the letter of your answer on the line preceding the question.

9. _____ A _____ is a representation of a chemical reaction; the formula(s) of the reactant(s) are connected by an arrow to the formula(s) of the product(s).
 - a. catalyst
 - b. coefficient
 - c. chemical equation
 - d. mole
10. _____ The statement, "methane reacts with molecular oxygen to produce carbon dioxide and water" is an example of a _____.
 - a. skeletal equation
 - b. balanced equation
 - c. word equation
 - d. coefficient
11. _____ In the balanced chemical equation below, the product(s) is/are _____. Select all that apply!
$$\text{BaCO}_{3(s)} \xrightarrow{\Delta} \text{CO}_{2(g)} + \text{BaO}_{(s)}$$
 - a. barium carbonate
 - b. carbon dioxide
 - c. barium oxide

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H. Scott Fogler



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Focus on Physical Science California Edition Michael J. Padilla, 2007

Elements of Chemical Reaction Engineering H. Scott Fogler, 2020-08-18 The Definitive Guide to Chemical Reaction Engineering Problem Solving With Updated Content and More Active Learning For decades H Scott Fogler s *Elements of Chemical Reaction Engineering* has been the world s dominant chemical reaction engineering text This Sixth Edition and integrated Web site deliver a more compelling active learning experience than ever before Using sliders and interactive examples in Wolfram Python POLYMATH and MATLAB students can explore reactions and reactors by running realistic simulation experiments Writing for today s students Fogler provides instant access to information avoids extraneous details and presents novel problems linking theory to practice Faculty can flexibly define their courses drawing on updated chapters problems and extensive Professional Reference Shelf web content at diverse levels of difficulty The book thoroughly prepares undergraduates to apply chemical reaction kinetics and physics to the design of chemical reactors And four advanced chapters address graduate level topics including effectiveness factors To support the field s growing emphasis on chemical reactor safety each chapter now ends with a practical safety lesson Updates throughout the book reflect current

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