

Chemistry Unit 8 Worksheet 4

Examples of Every Kind of Problem

This is a separate sheet of paper, so this is a complete solution to each of the problems. Notice: I'll state the problems without an arrow. We have to write your final answer.

12. Calculate the number of moles of potassium chlorate, KClO_3 , that must decompose to produce potassium chloride KCl and a total of 1.5 moles of oxygen gas.



| | | | |
|---------|------|------|------|
| Subst: | 1.0 | 0 | 0 |
| Change: | -1.0 | +1.0 | +1.5 |
| Final: | 0 | 1.0 | 1.5 |

1.0 moles KClO_3 needed

13. As a single displacement reaction, magnesium metal reacts with hydrochloric acid to produce magnesium chloride and hydrogen gas. When a strip of metal is placed in acid, it is completely covered within a 1.0 g of magnesium?



| | | | | |
|---------|--------|--------|--------|--------|
| Subst: | 0.000 | 0 | 0 | 0 |
| Change: | -0.000 | -0.000 | +0.000 | +0.000 |
| Final: | 0 | 0 | 0.000 | 0.000 |

0.000 moles HCl needed

14. Ethane, C_2H_6 , reacts with oxygen gas to produce carbon dioxide gas and water vapor. What number of moles of oxygen gas is required to react with 0.01 moles of ethane?



| | | | | |
|---------|-------|-------|-------|-------|
| Subst: | 0.00 | 0.00 | 0 | 0 |
| Change: | -0.00 | -0.00 | +0.00 | +0.00 |
| Final: | 0 | 0.00 | 0.00 | 0.00 |

0.00 moles O_2 needed

15. Sodium metal that is used in various industries produced 1.00 g of sodium Na metal. How much sodium chloride is produced according to the following equation:



| | | | | |
|---------|---------|---------|---------|---------|
| Subst: | 0.0000 | 0.00 | 0 | 0 |
| Change: | -0.0000 | -0.0000 | +0.0000 | +0.0000 |
| Final: | 0 | 0.00 | 0.0000 | 0.0000 |

0.0000 moles NaClO_3 needed

Modeling Chemistry Unit 8 4

Rachel S Tattersall



Modeling Chemistry Unit 8 4:

Modeling Chemistry Unit 8 4 Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the energy of words has are more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such may be the essence of the book **Modeling Chemistry Unit 8 4**, a literary masterpiece that delves deep in to the significance of words and their affect our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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