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Chapter 10 Study Guide

Molar Mass

- 1. What is the molar mass of sodium chromate?
- 2. What is the molar mass of sulfuric acid?
- 3. What is the molar mass of lead (IV) chloride?
- 4. What is the molar mass of acetic acid?

Conversions

- 5. Convert 3.98 moles of iron (II) chloride to grams.
- 6. Convert 6.39 x 10²⁵ molecules of copper (II) phosphate to moles.
- 7. Convert 378.7 liters of oxygen to moles.
- 8. Convert 78.33 grams of cyanic acid to moles.

Empirical Formula

- 9. What is empirical formula for C₃H₉N₃?
- 10. What is the empirical formula for P₄O₁₀?
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Problems

- 12. What is the empirical formula of a compound that contains 62.1%C, 13.8%H, and 24.1%N?
- 13. Find the molecular formula of ethylene glycol, which is used as antifreeze. The molar mass is 62g/mol and the empirical formula is CH₃O.
- 14. Calculate the percent composition of the compound that forms when 222.6g N combines completely with 77.4g O.
- 15. Calculate the percent composition of ammonium nitrate.
- 16. What is the molecular formula of a compound with a molar mass of 150g/mol and an empirical formula of CH₂O?
- 17. What is the empirical formula for a compound made of 50.7%C, 4.2%H, and 45.1%O?

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