

CHAPTER 7 REVIEW*Chemical Formulas and Chemical Compounds***SECTION 7-1****SHORT ANSWER** Answer the following questions in the space provided.

1. c In a Stock name such as iron(III) sulfate, the roman numeral tells us _____
- how many atoms of Fe are in one formula unit
 - how many sulfate ions can be attached to the iron atom
 - the charge on each Fe ion
 - the total positive charge of the formula unit
2. c The result of changing a subscript in a correctly written chemical formula is to _____
- change the number of moles represented by the formula
 - change the charges on the other ions in the compound
 - change the formula so that it no longer represents the compound it previously represented
 - have no effect on the formula
3. The explosive TNT has the molecular formula $C_7H_5(NO_2)_3$.
- | | |
|--|---|
| <u> 4 elements </u> | a. How many elements make up this compound? |
| <u> 6 oxygen atoms </u> | b. How many oxygen atoms are present in one molecule of $C_7H_5(NO_2)_3$? |
| <u> 21 atoms </u> | c. How many atoms in total are present in one molecule of $C_7H_5(NO_2)_3$? |
| <u> 4.2×10^{24} atoms </u> | d. How many atoms are present in a sample of 2×10^{23} molecules of $C_7H_5(NO_2)_3$? |
4. How many atoms are present in each of these formula units?
- | | |
|---------------------|-------------------------|
| <u> 11 atoms </u> | a. $Ca(HCO_3)_2$ |
| <u> 45 atoms </u> | b. $C_{12}H_{22}O_{11}$ |
| <u> 10 atoms </u> | c. $Fe(ClO_2)_3$ |
| <u> 9 atoms </u> | d. $Fe(ClO_3)_2$ |
5. N_2O_5 a. What is the formula for the compound dinitrogen pentoxide?
- carbon(IV) sulfide b. What is the Stock name for the covalent compound CS_2 ?
- H_2SO_3 c. What is the formula for sulfurous acid?
- phosphoric acid d. What is the name for the acid H_3PO_4 ?

Chapter 7 Chemistry

Guillaume Favre



Chapter 7 Chemistry:

Principles Of Descriptive Inorganic Chemistry Gary Wulfsberg, 1991-05-29 This is the only text currently available organized by class of compound and by property or reaction type not group by group or element by element which requires students to memorize isolated facts This is the only text currently available organized by class of compound and by property or reaction type not group by group or element by element which requires students to memorize isolated facts Translated into Italian *Industrial & Engineering Chemistry*, 1924 *The Spirit of Chemistry* Alexander Findlay, 1930 **Corrosion Mitigation Coatings** Ashish Kumar, Chandrabhan Verma, Abhinay Thakur, 2023-11-06 Experience the eco friendly breakthrough in corrosion mitigation through functionalized thin film coatings This book delves deep into the cutting edge advancements in synthesizing and applying functionalized thin film coatings to safeguard metals and alloys by replacing commercially available toxic inhibitors It includes an overview of properties applications and methodologies to detect and inhibit corrosion **Well Completion Design** Jonathan Bellarby, 2009-04-13 Completions are the conduit between hydrocarbon reservoirs and surface facilities They are a fundamental part of any hydrocarbon field development project They have to be designed for safely maximising the hydrocarbon recovery from the well and may have to last for many years under ever changing conditions Issues include connection with the reservoir rock avoiding sand production selecting the correct interval pumps and other forms of artificial lift safety and integrity equipment selection and installation and future well interventions Course book based on course well completion design by TRACS International Unique in its field Coverage of offshore subsea and landbased completions in all of the major hydrocarbon basins of the world Full colour

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Cooling Load Estimate Sheet Quickie Load Estimate Form. 2, Project Name: 3. 4, Rules of Thumb for Cooling Load Estimates

... Computer Load Total BTU/Hr, From Table 1, 0, = 55, (if not ... ASHRAE Heat & Cooling Load Calculation Sheet

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