

FORMULAS AND OXIDATION NUMBERS

A chemical formula is a combination of symbols and numerical subscripts that represents the composition of a compound. The symbols indicate which elements are present and the numerical subscripts indicate the relative proportion of each element in the compound. These proportions can be predicted using the oxidation numbers of the elements and the charges of polyatomic ions. When atoms acquire a charge they are called ions. Ions consisting of more than one atom are polyatomic ions. Its oxidation number represents the apparent charge on an atom.

It is important that all scientists use the same system for writing chemical formulas. This helps to ensure clear and consistent transmission of information. Therefore, the following rules should be used for writing chemical formulas.

1. In a neutral compound the sum of the oxidation numbers of the elements and the charges on polyatomic ions in that compound must equal zero.
2. One positive (+) charge will neutralize one negative (-) charge.
3. Atoms with positive oxidation numbers or ions with positive charges are written first.
4. When the relative proportion of an element in a compound is greater than one, the symbol for that element must be followed by a numerical subscript indicating its relative proportion, as in MgCl_2 .
5. When the relative proportion of a polyatomic ion in a compound is greater than one, the symbol for the polyatomic ion must be enclosed by parentheses, followed by the correct numerical subscript, as in $\text{Al}_2(\text{SO}_4)_3$.

In this experiment you will use cut-out models of ions to form neutral compounds. The correct chemical formula and name for each compound will be determined by balancing oxidation numbers and charges.

OBJECTIVES

In this experiment, you will:

- cut out models of ions
- match the necessary number of ions until the positive and negative oxidation numbers equal 0
- predict the correct formulas for the compounds listed.

EQUIPMENT

scissors
pencil and paper
sheet of ion models
glue stick

PROCEDURE

1. Prepare a data table as directed in the Analysis.
2. Cut out each of the "ion" squares from the sheet provided by your teacher.
3. Construct formulas for the following combinations of substances. For example, the formula for a compound containing magnesium and chlorine may be determined in the following way: Place the Mg^{2+} ion on a piece of paper. Place enough Cl^- ions alongside the Mg^{2+} ion to balance the charges. (Positive charges must equal negative charges.)

4. Predict formulas for four additional compounds using the ions listed in this experiment. (see data table for requirements). Use references to determine if your compounds exist.

Combining Substances:

aluminum and bromine
sodium and oxygen
magnesium and sulfur
aluminum and nitrate ion
potassium and sulfate ion
ammonia and chlorine
ammonium ion and sulfur
aluminum and oxygen
magnesium and sulfate ion
sodium and phosphate ion

Formulas And Oxidation Numbers Lab Answers

Robert Bruce Thompson



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Laboratory Manual for Principles of General Chemistry J. A. Beran, Mark Lassiter, 2022-08-16
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Laboratory Manual Jo A. Beran, 1990
Environmental Sampling and Analysis Maria Csuros, 1997-03-24 This manual covers the latest laboratory techniques state of the art instrumentation laboratory safety and quality assurance and quality control requirements In addition to complete coverage of laboratory techniques it also provides an introduction to the inorganic nonmetallic constituents in environmental samples their chemistry and their control by regulations and standards Environmental Sampling and Analysis Laboratory Manual is perfect for college and graduate students learning laboratory practices as well as consultants and regulators who make evaluations and quality control decisions Anyone performing laboratory procedures in an environmental lab will appreciate this unique and valuable text

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