

## GLOSSARY

### B

**binary compound** a compound composed of two different elements (206)

### E

**empirical formula** the symbols for the elements combined in a compound with subscripts showing the smallest whole-number mole ratio of the different atoms in the compound (229)

### F

**formula mass** the sum of the average atomic masses of all the atoms represented in the formula of any molecule, formula unit, or ion (221)

### M

**monatomic ion** an ion formed from a single atom (204)

### N

**nomenclature** a naming system (206)

### O

**oxidation number** a number assigned to an atom in a molecular compound or molecular ion that indicates the general distribution of electrons among the bonded atoms (216)

**oxidation state** a number assigned to an atom in a molecular compound or ion that indicates the general distribution of electrons among the bonded atoms (216)

**oxyanion** a polyatomic ion that contains oxygen (209)

### P

**percentage composition** the percentage by mass of each element in a compound (227)

### S

**salt** an ionic compound composed of a cation and the anion from an acid (215)