

Answer on Question #44631 – Chemistry – Other

Question

Multiple choice:

Chemical equations provide:

- a....the physical state of each reactant and product
- b....the ratios of reactants and products
- c....the chemical identity of the reactants and products
- d....All of these are correct.

Answer

Option **d** (All of these are correct) is correct.

All options are correct because in chemical equation:

the chemical identity of the reactants and products is expressed by their chemical formulas,

the ratios of reactants and products are expressed by stoichiometric coefficients (numbers before chemical formulas of reactants and products)

and *physical state of each of reactant and product* is usually specified by letter in brackets (s, l, g or aq) after each chemical formula in the equation.

Sometimes, however, physical state is not specified in chemical equations, in such case options **b** and **c** are correct.