

Answer on Question #81141 – Chemistry – Organic Chemistry

Task:

An element A with an atomic number 11 and B with atomic number 17 react to form a compound. What is the formula of the compound formed?

Solution:

1) A sodium atom (Na) has atomic number 11.

A has electronic configuration - 2,8,1.

It has 3 shells or orbits so it is placed in period 3

It has 1 electron in its outermost shell so it is placed in group I A

2) A chlorine atom (Cl) has atomic number 17.

B has electronic configuration - 2,8,7.

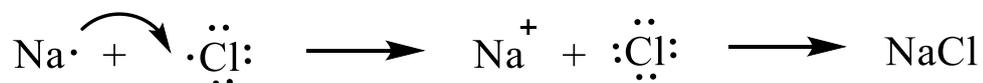
It has 3 shells or orbits so it is placed in period 3.

It has 7 electrons in the outermost shell it is placed in group VII A



NaCl – sodium chloride

Taking of electrons bond present between them is ionic bond.



Answer: sodium chloride will be formed (**NaCl**).