

Types of Chemical Bonds

Classify the following compounds as ionic (a metal + a nonmetal), covalent (a nonmetal + a nonmetal) or both (a compound containing a metal and a polyatomic ion)

In the other column list the number of atoms in each compound.

	Type of Bond
1.) CaCl_2	_____
2.) CO_2	_____
3.) H_2O	_____
4.) $\text{Sr}_3(\text{PO}_4)_2$	_____
5.) K_2O	_____
6.) NaF	_____
7.) $\text{Al}_2(\text{CO}_3)_3$	_____
8.) CH_4	_____
9.) SO_3	_____
10.) LiBr	_____
11.) $\text{Mg}_3(\text{PO}_4)_2$	_____
12.) $(\text{NH}_4)_2\text{HPO}_4$	_____
13.) $\text{C}_{12}\text{H}_{22}\text{O}_{11}$	_____
14.) H_2O	_____

15.) $\text{C}_2\text{H}_5\text{OH}$ _____

List each atom and how many are in the compound. Follow the example below.

$\text{Ca} = 1$ $\text{Cl} = 2$