4.1 ID Ionic & Covalent Bonds (E) Notes

Intramolecular Bonds --

|  |  |
| --- | --- |
| Covalent Bonds | Ionic Bonds |
| How are the elements joined? (Electrons) | How are the elements joined? (Electrons) |
| Between: | Between: |
| What structure is created? | What structure is created? |
| Sketch an example of the structure: | Sketch an example of the structure: |
| Electronegativity DifferenceNon-polar:Polar: | Electronegativity Difference |
| Examples:H2OH2C11H22O12 | Examples:NaClCaF2Mg(OH)2 |

Polyatomic Ions --

Are the following bonds Ionic or Covalent?

MgF2

HF

H2S

KNO2

F2

CaI2

CH4

ICl

CCl4

O2

Na2CO3

Properties

|  |  |
| --- | --- |
| Covalent Bonds | Ionic Bonds |
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