

Ionic	Covalent
Metal–metal, non-metal–metal	Non-metal
Total transfer of electrons	Shared electrons
High melting and boiling points	Low melting and room temperature boiling points
Solids at room temperature	Liquids and gases at room temperature
Hard/brittle (inorganic compounds)	Relatively soft (organic compounds)
Strong bonds	Weak bonds
Electrically reactive	Does not normally conduct electricity
Soluble in water	Insoluble in water
Electron orbitals are separate	Electron orbitals overlap