

Ionic vs. Covalent Bonding
Compare and Contrast

description	Ionic bonding	Covalent bonding
e ⁻ shared or e ⁻ given and received		
Metal and non-metal or Non-metal and non-metal		
Conductivity		

Classify each of the following compounds as ionic or covalent and name each compound.

Compound	Ionic or covalent	Compound Name
(NH ₄) ₂ S		
OCl ₂		
SnCl ₂		
NaNO ₃		
N ₂ O ₃		
SCl ₂		
NBr ₃		
FeF ₂		

The compounds in each group below have similar looking formulas but they have very different names. Classify each as ionic or covalent and name each compound.

Chemical Formula	Ionic or covalent compound	Compound Name
a. VO_2 b. NO_2		
c. CrBr_2 d. CdBr_2 e. SBr_2		
f. $\text{Na}_2\text{Cr}_2\text{O}_7$ g. Na_2CrO_4 h. Cr_2O_3 i. N_2O_3		
j. SO_3 k. Li_2SO_3 l. Li_2SO_4 m. SO_2		
n. OCl_2 o. BeF_2 p. FeF_2		
q. CO_2 r. NaHCO_3 s. PbCO_3		