

Noteset 2D (Part 5)

Name to Formula from Ionic Compounds

For the following ionic compounds, determine the name of the ionic compound

Ionic Compound	Beryllium Phosphide	
Elements or Poly Ions	Be ^(2A)	P ^(5A)
Ion Charge	+2	-3
Cross Method	$+2 \quad -3$ $\text{Be} \quad \text{P}$	
Ionic Formula	Be ₃ P ₂	

left
 () ?
 -ium ?
 right
 -ide ?
 If ide
 OH⁻ or CN⁻ ?
 Beryllium | Phosphide
 () ? no | -ide ? yes
 -ium poly ? no | -ide poly ? no
 rep. metal | rep. nonmetal

Ionic Compound	Vanadium(III) Hydroxide	
Elements or Poly Ions	V	OH
Ion Charge	+3	-1
Cross Method	$+3 \quad -1$ $\text{V} \quad (\text{OH})$	
Ionic Formula	V(OH) ₃	

Vanadium(III) | Hydroxide
 () ? yes | -ide ? yes
 -ium poly ? X | -ide poly ? yes
 trans. metal | -ide poly

Ionic Compound	Calcium Fluoride	
Elements or Poly Ions	$\text{Ca}^{(2+)}$	FO_3
Ion Charge	$+2$	-1
Cross Method	$+2 \quad -1$ $\text{Ca}(\text{FO}_3)$	
Ionic Formula	$\text{Ca}(\text{FO}_3)_2$	

Calcium | Fluoride
 ()? *no* -ide? *no*
 -ium poly? *no* -ide poly? *X*
rep. metal *poly. ion*

Ionic Compound	Lead(IV) Chromate	
Elements or Poly Ions		
Ion Charge		
Cross Method		
Ionic Formula		

Lead (IV) | Chromate
 ()? -ide?
 -ium poly? -ide poly?

Ionic Compound	Iron(III)Cyanide	
Elements <i>or</i> Poly Ions		
Ion Charge		
Cross Method		
Ionic Formula		

Iron(III)Cyanide
 ()?
 -ide?
 -ium?
 poly?
 -ide?
 poly?

Ionic Compound	Ammonium Oxalate	
Elements <i>or</i> Poly Ions		
Ion Charge		
Cross Method		
Ionic Formula		

Ammonium Oxalate
 ()?
 -ide?
 -ium?
 poly?
 -ide?
 poly?