

ANSWERS

Chemical Formula Writing Worksheet Two

Write chemical formulas for the compounds in each box. The names are found by finding the intersection between the cations and anions. Example: The first box is the intersection between the "zinc" cation and the "chloride" anion, so you should write "ZnCl₂", as shown.

Anions	Cations ⁺³					
	zinc	iron (II)	iron (III)	gallium	silver	lead (IV)
chloride	ZnCl ₂	FeCl ₂	FeCl ₃	GaCl ₃	AgCl	PbCl ₄
acetate	Zn(CH ₃ COO) ₂	Fe(CH ₃ COO) ₂	Fe(CH ₃ COO) ₃	Ga(CH ₃ COO) ₃	AgCH ₃ COO	Pb(CH ₃ COO) ₄
nitrate	Zn(NO ₃) ₂	Fe(NO ₃) ₂	Fe(NO ₃) ₃	Ga(NO ₃) ₃	AgNO ₃	Pb(NO ₃) ₄
oxide	ZnO	FeO	Fe ₂ O ₃	Ga ₂ O ₃	Ag ₂ O	PbO ₂
nitride	Zn ₃ N ₂	Fe ₃ N ₂	FeN	GaN	Ag ₃ N	Pb ₃ N ₄
sulfate	ZnSO ₄	FeSO ₄	Fe ₂ (SO ₄) ₃	Ga ₃ (SO ₄) ₂	Ag ₂ SO ₄	Pb(SO ₄) ₂

Write the formulas for the following compounds:

- copper (II) chloride CuCl₂
- lithium acetate LiCH₃COO
- vanadium (III) selenide V₂Se₃
- manganese (IV) nitride Mn₃N₄
- beryllium oxide BeO
- sodium sulfate Na₂SO₄
- aluminum arsenide AlAs
- potassium permanganate KMnO₄
- chromium (VI) cyanide Cr(CN)₆
- tin (II) sulfite Sn²⁺SO₃²⁻
- vanadium (V) fluoride V⁵⁺F₅⁻
- ammonium nitrate NH₄NO₃