

# Binary Acids, Pseudo Binary Acid, and Related Ions<sup>1</sup>

Binary Acids, Related Ions, and Covalent Compounds					
Acid Formula	Acid Name	Related Ion	Ion Name	Covalent Compound Formula	Covalent Compound Name
<b>HF(aq)</b>	Hydrofluoric acid	<b>F<sup>-</sup></b>	Fluoride	<b>HF(g)</b>	Hydrogen fluoride
<b>HCl(aq)</b>	Hydrochloric acid	<b>Cl<sup>-</sup></b>	Chloride	<b>HCl(g)</b>	Hydrogen chloride
<b>HBr(aq)</b>	Hydrobromic acid	<b>Br<sup>-</sup></b>	Bromide	<b>HBr(g)</b>	Hydrogen bromide
<b>HI(aq)</b>	Hydroiodic acid	<b>I<sup>-</sup></b>	Iodide	<b>HI(g)</b>	Hydrogen iodide
<b>H<sub>2</sub>S(aq)</b>	Hydrosulfuric acid	<b>S<sup>2-</sup></b>	Sulfide	<b>H<sub>2</sub>S(g)</b>	Dihydrogen sulfide
		<b>HS<sup>-</sup></b>	Hydrogen sulfide		

Pseudo Binary Acid, Related Ion, and Covalent Compound					
Acid Formula	Acid Name	Related Ion	Ion Name	Covalent Compound Formula	Covalent Compound Name
<b>HCN(aq)</b>	Hydrocyanic acid	<b>CN<sup>-</sup></b>	Cyanide	<b>HCN(g)</b>	Hydrogen cyanide