

Acid Nomenclature

Names of Binary Acids

<i>Formula</i>	<i>Name of Pure Substance</i>	<i>Name of Acid</i>
HF	hydrogen fluoride	hydrofluoric acid
HCl	hydrogen chloride	hydrochloric acid
HBr	hydrogen bromide	hydrobromic acid
HI	hydrogen iodide	hydroiodic acid
H ₂ S	hydrogen sulfide	hydrosulfuric acid

Names of Oxyacids

<i>Formula</i>	<i>Name of Pure Substance</i>	<i>Name of Acid</i>
HC ₂ H ₃ O ₂	hydrogen acetate	acetic acid
H ₂ CO ₃	hydrogen carbonate	carbonic acid
HClO	hydrogen hypochlorite	hypochlorous acid
HClO ₂	hydrogen chlorite	chlorous acid
HClO ₃	hydrogen chlorate	chloric acid
HClO ₄	hydrogen perchlorate	perchloric acid
HNO ₂	hydrogen nitrite	nitrous acid
HNO ₃	hydrogen nitrate	nitric acid
H ₃ PO ₃	hydrogen phosphite	phosphorous acid
H ₃ PO ₄	hydrogen phosphate	phosphoric acid
H ₂ SO ₃	hydrogen sulfite	sulfurous acid
H ₂ SO ₄	hydrogen sulfate	sulfuric acid

Naming System of Oxyacids That Consist of a Common Central Element and Varying Numbers of Oxygen Atoms

<u>Example</u>	<u>Oxyacids Using This System</u>		
HClO	hypo-chlor-ous acid	HClO ₃	chloric acid
HClO ₂	chlor-ous acid	HNO ₃	nitric acid
HClO ₃	chlor-ic acid	HBrO ₃	bromic acid
HClO ₄	per-chlor-ic acid	H ₂ SO ₄	sulfuric acid
		H ₃ PO ₄	phosphoric acid