



CHEM 2400/2410

Symbol	Name	Symbol	Name	Formula	Name	Prefix	Number
<i>Cations</i>		<i>Anions</i>		<i>Strong Acids</i>			
NH <sub>4</sub> <sup>+</sup>	Ammonium	O <sup>2-</sup>	Oxide	HClO <sub>4</sub>	Perchloric acid	mono	one
K <sup>+</sup>	Potassium	N <sup>3-</sup>	Nitride	HI(aq)	Hydroiodic acid	di	two
Ca <sup>2+</sup>	Calcium	OH <sup>1-</sup>	Hydroxide	HBr (aq)	Hydrobromic acid	tri	three
Al <sup>3+</sup>	Aluminum	CN <sup>1-</sup>	Cyanide	HCl(aq)	Hydrochloric acid	tetra	four
Hg <sub>2</sub> <sup>2+</sup>	Mercury(I)	SO <sub>4</sub> <sup>2-</sup>	Sulfate	H <sub>2</sub> SO <sub>4</sub>	Sulfuric acid	penta	five
Ag <sup>1+</sup>	Silver(I)	PO <sub>4</sub> <sup>3-</sup>	Phosphate	HNO <sub>3</sub>	Nitric acid	hexa	six
Fe <sup>2+</sup>	Iron(II)	NO <sub>3</sub> <sup>1-</sup>	Nitrate	<i>Weak Acids</i>			
Fe <sup>3+</sup>	Iron(III)	CO <sub>3</sub> <sup>2-</sup>	Carbonate	HNO <sub>2</sub>	Nitrous acid	octa	eight
Cu <sup>2+</sup>	Copper(II)	ClO <sub>3</sub> <sup>1-</sup>	Chlorate	H <sub>2</sub> CO <sub>3</sub>	Carbonic acid	nona	nine
Mn <sup>3+</sup>	Manganese(III)	BrO <sub>3</sub> <sup>1-</sup>	Bromate	HClO <sub>3</sub>	Chloric acid	deca	ten
Zn <sup>2+</sup>	Zinc(II)	PO <sub>3</sub> <sup>3-</sup>	Phosphite	H <sub>3</sub> PO <sub>4</sub>	Phosphoric acid	undeca	eleven
N <sub>2</sub> H <sub>5</sub> <sup>1+</sup>	Hydrazinium	NO <sub>2</sub> <sup>1-</sup>	Nitrite	HClO <sub>2</sub>	Chlorous acid	dodeca	twelve
Sn <sup>2+</sup>	Tin(II)	SO <sub>3</sub> <sup>2-</sup>	Sulfite	HClO	Hypochlorous acid		
<i>Covalent compounds</i>		ClO <sub>4</sub> <sup>1-</sup>	Perchlorate	HBrO <sub>4</sub>	Perbromic acid	femto	10 <sup>-15</sup>
NH <sub>3</sub>	Ammonia	ClO <sub>2</sub> <sup>1-</sup>	Chlorite	HIO <sub>4</sub>	Periodic acid	pico	10 <sup>-12</sup>
C <sub>2</sub> H <sub>5</sub> OH	Ethanol	ClO <sup>1-</sup>	Hypochlorite	H <sub>2</sub> SO <sub>3</sub>	Sulfurous acid	nano	10 <sup>-9</sup>
CH <sub>4</sub>	Methane	C <sub>2</sub> O <sub>4</sub> <sup>2-</sup>	Oxalate	HF	Hydrofluoric acid	micro	10 <sup>-6</sup>
C <sub>2</sub> H <sub>6</sub>	Ethane	C <sub>2</sub> H <sub>3</sub> O <sub>2</sub> <sup>1-</sup>	Acetate	HCN	Hydrocyanic acid	milli	10 <sup>-3</sup>
C <sub>3</sub> H <sub>8</sub>	Propane	HCO <sub>3</sub> <sup>1-</sup>	Bicarbonate or hydrogen carbonate	H <sub>3</sub> PO <sub>3</sub>	Phosphorous acid	centi	10 <sup>-2</sup>
C <sub>4</sub> H <sub>10</sub>	Butane	HPO <sub>4</sub> <sup>2-</sup>	Hydrogenphosphate	<i>Organic Acids</i>			
C <sub>5</sub> H <sub>12</sub>	Pentane	H <sub>2</sub> PO <sub>4</sub> <sup>1-</sup>	Dihydrogenphosphate	H-COOH	Formic acid	deca	10 <sup>+1</sup>
PCl <sub>5</sub>	Phosphorous pentachloride	CrO <sub>4</sub> <sup>2-</sup>	Chromate	CH <sub>3</sub> COOH	Acetic acid	hacta	10 <sup>+2</sup>
N <sub>2</sub> O <sub>4</sub>	Dinitrogen tetroxide	Cr <sub>2</sub> O <sub>7</sub> <sup>2-</sup>	Dichromate	CH <sub>3</sub> CH <sub>2</sub> COOH	Propanoic acid	kilo	10 <sup>+3</sup>
NO	Nitrogen monoxide (Nitric oxide)	MnO <sub>4</sub> <sup>1-</sup>	Permanganate	H <sub>2</sub> C <sub>2</sub> O <sub>4</sub> or HOOC-COOH	Oxalic acid	mega	10 <sup>+6</sup>
N <sub>2</sub> O	Dinitrogen monoxide (nitrous oxide)	AsO <sub>4</sub> <sup>3-</sup>	Arsenate	C <sub>6</sub> H <sub>5</sub> COOH	Benzoic acid	giga	10 <sup>+9</sup>

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