

# AADHARSHILA STUDIES

## (List of Cations and Anions) ( For All Classes)

### Common Cations:)

<u>Name</u>	<u>Formula</u>	<u>Other name(s)</u>
Aluminum	$\text{Al}^{+3}$	
Ammonium	$\text{NH}_4^+$	
Barium	$\text{Ba}^{+2}$	
Calcium	$\text{Ca}^{+2}$	
Chromium(II)	$\text{Cr}^{+2}$	Chromous
Chromium(III)	$\text{Cr}^{+3}$	Chromic
Copper(I)	$\text{Cu}^+$	Cuprous
Copper(II)	$\text{Cu}^{+2}$	Cupric
Iron(II)	$\text{Fe}^{+2}$	Ferrous
Iron(III)	$\text{Fe}^{+3}$	Ferric
Hydrogen	$\text{H}^+$	
Hydronium	$\text{H}_3\text{O}^+$	
Lead(II)	$\text{Pb}^{+2}$	
Lithium	$\text{Li}^+$	
Magnesium	$\text{Mg}^{+2}$	
Manganese(II)	$\text{Mn}^{+2}$	Manganous
Manganese(III)	$\text{Mn}^{+3}$	Manganic

Mercury(I)	$\text{Hg}_2^{+2}$	Mercurous
Mercury(II)	$\text{Hg}^{+2}$	Mercuric
Nitronium	$\text{NO}_2^+$	
Potassium	$\text{K}^+$	
Silver	$\text{Ag}^+$	
Sodium	$\text{Na}^+$	
Strontium	$\text{Sr}^{+2}$	
Tin(II)	$\text{Sn}^{+2}$	Stannous
Tin(IV)	$\text{Sn}^{+4}$	Stannic
Zinc	$\text{Zn}^{+2}$	

**Common Anions:)**

*Simple ions:*

Hydride	$\text{H}^-$	Oxide	$\text{O}^{2-}$
Fluoride	$\text{F}^-$	Sulfide	$\text{S}^{2-}$
Chloride	$\text{Cl}^-$	Nitride	$\text{N}^{3-}$
Bromide	$\text{Br}^-$		
Iodide	$\text{I}^-$		

*Oxoanions:*

Arsenate	$\text{AsO}_4^{3-}$	Phosphate	$\text{PO}_4^{3-}$
Arsenite	$\text{AsO}_3^{3-}$	Hydrogen phosphate	$\text{HPO}_4^{2-}$
		Dihydrogen phosphate	$\text{H}_2\text{PO}_4^-$

Sulfate	$\text{SO}_4^{2-}$	Nitrate	$\text{NO}_3^-$
Hydrogen sulfate	$\text{HSO}_4^-$	Nitrite	$\text{NO}_2^-$
Thiosulfate	$\text{S}_2\text{O}_3^{2-}$		
Sulfite	$\text{SO}_3^{2-}$		
Perchlorate	$\text{ClO}_4^-$	Iodate	$\text{IO}_3^-$
Chlorate	$\text{ClO}_3^-$	Bromate	$\text{BrO}_3^-$
Chlorite	$\text{ClO}_2^-$		
Hypochlorite	$\text{OCl}^-$	Hypobromite	$\text{OBr}^-$
Carbonate	$\text{CO}_3^{2-}$	Chromate	$\text{CrO}_4^{2-}$
Hydrogen carbonate or Bicarbonate	$\text{HCO}_3^-$	Dichromate	$\text{Cr}_2\text{O}_7^{2-}$

*Anions from Organic Acids:*

Acetate	$\text{CH}_3\text{COO}^-$	formate	$\text{HCOO}^-$
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*Others:*

Cyanide	$\text{CN}^-$	Amide	$\text{NH}_2^-$
Cyanate	$\text{OCN}^-$	Peroxide	$\text{O}_2^{2-}$
Thiocyanate	$\text{SCN}^-$	Oxalate	$\text{C}_2\text{O}_4^{2-}$
Hydroxide	$\text{OH}^-$	Permanganate	$\text{MnO}_4^-$