Avogadro's Number Faraday Constant Atomic Mass Constant Atomic Mass Constant Molar Gas C	/3.1																
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			$10^{-27}~{ m kg}$														
Soltzmann Consant Charge on a Proton/Electron Planck's Constant Specific heat cap. of H ₂ O ₍₁₎ 1 IA Specific heat cap. of H ₂ O ₁ 1 IA Specific heat cap. of H ₂ O ₁ 1 IA Specific heat cap. of H ₂ O ₁ 1 IA Specific heat cap. of H ₂ O ₁ 1 IA Specific heat cap. of H ₂ O ₁ 1 IA Specific heat cap. of H ₂ O ₁ 1 IA Specific heat cap. of H ₂ O ₁ 1 IA Specific heat cap. of H ₂ O ₁ 1 IA Specific heat cap. of H ₂ O ₁ 1 IA Specific heat cap. of H ₂ O ₁ 1 IA Specific heat cap. of H ₂ O ₁ 1 IA Specific heat cap. of H ₂ O ₁ 1 IA Specific heat cap. of H ₂ O ₁ 1 IA Specific heat cap. of H ₂ O ₁ 1 IA Specific heat cap. of H ₂ O ₂ 1 IA Specific heat cap. of H ₂ O ₂ 1 IA Specific heat cap. of H ₂ O ₂ 1 IA Specific heat cap. of H ₂ O ₂ 1 IA Specific heat cap. of H ₂ O ₂ 1 IA Specific heat cap. of H ₂ O ₂ 1 IA Specifi	$\begin{array}{ccc} C^{-1} & mol^{-1} & & \\ Im^2 & C^{-2} & & Kinetics \end{array}$																
Specific heat cap. of $H_2O_{(1)}$ $c = 4.18 \text{ kJ kg}^{-1} \text{ C}^{-1}$ $c = 4.18 \text{ kJ kg}^{-1} \text{ c}^{-1} \text{ c}^{-1}$ $c = 4.18 \text{ kJ kg}^{-1} \text{ c}^{-1} $																	
1 2.20	$\frac{1}{\lambda} = R_H \left(\frac{1}{n_i^2} - \frac{1}{n_f^2} \right) \tag{18}$																
1.01 2 IIA $K_a = \frac{ H^- A }{ HA }$ $K_a = \frac{ H^- A }{ HA }$ $K_b = \frac{ A^- A }{ A }$ $K_b = A^- A $			2 He Helium														
2 Lithium 6.94 Be Lithium 9.01 $K_w = K_a K_b = [H^+][OH^-]$ K_w	14 IVA 15 VA	16 VIA 17 VIIA	4.00														
11 0.93 Na Sodium 22.99 NB 12 1.31 $pK_a = -\log K_a, pK_b = -\log K_b$. 13 1.61 Al Aluminium 22.99 NB 12 1.31 $pK_a = -\log K_a, pK_b = -\log K_b$. 15 1.61 Al Aluminium 26.98 NB 10 VIIIB NO V	6 2.55 7 3.14 N 2 Nitrogen 12.01 14.01	8 3.44 9 3.9 O ₂ F ₂ Fluorine 19.00	Ne Neon 20.18														
	14 1.90 15 2.19 Si Silicon 28.09 Phosphorus 30.97	S Cl ₂	18 Ar Argon 39.95														
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	32 2.01 33 2.18 Ge As Germanium 72.63 Arsenic 74.92	34 2.55 35 2.9 Selenium 78.97 Bromine 79.90	Kr														
The street of t	50 1.96 51 2.05 Sb Tin Antimony 118.71 121.76	52 2.1 53 2.8 Te Tellurium 127.60 126.90	Xe Xenon 131.29														
6 Cs Caesium 132.91 Sharper 137.33 Sharper 137.34 Sharper 137.35	82 1.87 83 2.02 Pb Bi Lead Bismuth 207.2 208.98	Po 85 2 At Astatine (210)	Rn														
7 Fr Francium (223) Ra Radium (226) Ra Radium (226) Rotation (267) Rotation (268) Rotation (269) Rotation (269) Rotation (270)	114 115 MC Flerovium (289) Moscovium (290)	116 Lv Livermorium (293) 117 Ts Tennessin (294)	e Ogannesson (294)														
Cas Super Co HCl CO HNO CO H	67 1.23 68 1.24 Ho Holmium 164.93 Erbium 167.26	70 1 Tm Thulium 168.93 70 1 Yb Ytterbium 173.05	.1 71 1.27 Lu Lutetium 174.97														
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	99 1.3 100 1.3 Es Fm	101 1.3 102 1 Md No	.3 103 1.3														

$(NH_3)^{-1} = ammonium $		Polyato	Polyatomic lons	
ammonium 1- 1- (Cro ₄) ⁻² (Cr ₂ O ₇) ⁻² nitrate hydroxide bicarbonate or hydrogen carbonate chlorate chlorate cyanide hypochlorite bisulfate or hydrogen sulfate dihydrogen phosphate dihydrogen phosphate cyanide cyanide cyanide dihydrogen phosphate dihydrogen phosphate hypoiodite (SiO ₄) ⁻³ (PO ₄) ⁻³ amide formate		1+		2-
nitrate nitrite hydroxide bicarbonate or hydrogen carbonate chlorate chlorate chlorite hypochlorite cyanide dihydrogen phosphate dihypoiodite hypoiodite formate form	$(\mathrm{NH_4})^{+1}$	ammonium	$(CrO_4)^{-2}$	chromate
nitrate hydroxide bicarbonate or hydrogen carbonate chlorate chlorate cyanide thiocyanate dihydrogen phosphate dihydrogen phosphate dihydroiodite hypoiodite formate f		1-	$(Cr_2O_7)^{-2}$	dichromate
hydroxide bicarbonate or hydrogen carbonate coetate coetate chlorate chlorate chlorate cyanide thiocyanate dihydrogen phosphate dihydrogen phosphate dihypoiodite charte cyanide dihydrogen phosphate dihydrogen phosphate formate formate formate formate formate formate formate formate hydroxide formate f	$(NO_3)^{-1}$	nitrate	$(CO_3)^{-2}$	carbonate
hydroxide bicarbonate or hydrogen carbonate acetate (O ₂) ² (S ₂ O ₃) ² perchlorate chlorate chlorate chorite hypochlorite cyanide thiocyanate dihydrogen phosphate dihydrogen phosphate formate formate formate formate formate formate formate hydrogin differ formate formate	$(NO_2)^{-1}$	nitrite	$(\mathrm{HPO_4})^{-2}$	dibasic phosphate or
bicarbonate or hydrogen carbonate acetate (O ₂) ⁻² (O ₂) ⁻² (So ₃) ⁻² (So ₃) ⁻² chlorate chlorate (C ₂ O ₄) ⁻² (SO ₃) ⁻² (C ₂ O ₄) ⁻² hypochlorite cyanide thiocyanate bisulfate or hydrogen sulfate dihydrogen phosphate (C ₆ H ₅ O ₇) ⁻³ (PO ₄) ⁻³ (PO ₄) ⁻³ (PO ₄) ⁻³ amide formate formate	(OH) ⁻¹	hydroxide		<u>hydrogen phosphate</u>
hydrogen carbonate acetate acetate (O ₂) ⁻² (S ₂ O ₃) ⁻² perchlorate (SO ₄) ⁻² (SO ₄) ⁻² (SO ₄) ⁻² (AsO ₄) ⁻³ thiocyanate hypochlorite cyanide thiocyanate dihydrogen phosphate dihydrogen phosphate (C ₆ H ₅ O ₇) ⁻³ (PO ₄) ⁻³ (PO ₄) ⁻³ periodate hypoiodite (SiO ₄) ⁻³ (SiO ₄) ⁻⁴ amide	$(HCO_3)^{-1}$	<u>bicarbonate</u> or	,	
acetate $(S_2O_3)^{-2}$ perchlorate $(SO_4)^{-2}$ chlorate $(SO_3)^{-2}$ chlorite hypochlorite $(SO_3)^{-2}$ cyanide thiocyanate bisulfate or hydrogen sulfate dihydrogen phosphate $(C_6H_5O_7)^{-3}$ periodate iodate hypoiodite $(SiO_4)^{-4}$ amide $(SiO_4)^{-4}$		hydrogen carbonate	$(MnO_4)^{-2}$	manganate
perchlorate chlorate chlorate chlorite hypochlorite cyanide thiocyanate dihydrogen phosphate dihydrogen phosphate hypoiodite formate formate formate formate formate formate formate chlorate (SO ₄) ⁻² (AsO ₄) ⁻³ (AsO ₄) ⁻³ (AsO ₃) ⁻³ (BO ₃) ⁻³ (PO ₄) ⁻³ (PO ₄) ⁻³ (PO ₄) ⁻³ amide	$(C_2H_3O_2)^{-1}$	acetate	$(O_2)^{-2}$	peroxide
perchlorate chlorate chlorate chlorite hypochlorite cyanide thiocyanate bisulfate or hydrogen sulfate dihydrogen phosphate cholorite (AsO ₄) ⁻² (AsO ₄) ⁻³ (BO ₃) ⁻³ permanganate dihydrogen phosphate (C ₆ H ₅ O ₇) ⁻³ (PO ₄) ⁻³ periodate iodate hypoiodite (SiO ₄) ⁻⁴ amide			$(S_2O_3)^{-2}$	thiosulfate
chlorate chlorite hypochlorite cyanide thiocyanate bisulfate or hydrogen sulfate dihydrogen phosphate character dihydrogen phosphate hypoiodite character (C ₆ H ₅ O ₇) ⁻³ (PO ₄) ⁻³ amide formate	$(CIO_4)^{-1}$	perchlorate	$(\mathrm{SO_4})^{-2}$	sulfate
chlorite hypochlorite cyanide thiocyanate bisulfate or hydrogen sulfate dihydrogen phosphate cyanide (AsO ₄) ⁻³ (AsO ₄) ⁻³ (BO ₃) ⁻³ (BO ₄) ⁻³ permanganate dihydrogen phosphate (C ₆ H ₅ O ₇) ⁻³ (PO ₄) ⁻³ periodate hypoiodite (SiO ₄) ⁻⁴ amide	$(C1O_3)^{-1}$	chlorate	$(SO_3)^{-2}$	sulfite
cyanide cyanide thiocyanate thiocyanate bisulfate or hydrogen sulfate dihydrogen phosphate dihydrogen phosphate periodate hypoiodite (SiO ₄) ⁻³ (PO ₄) ⁻³ (PO ₄) ⁻³ amide	$(CIO_2)^{-1}$	chlorite	$(C_2O_4)^{-2}$	oxalate
cyanide thiocyanate thiocyanate bisulfate or hydrogen sulfate dihydrogen phosphate dihydrogen phosphate periodate iodate hypoiodite (SiO ₄) ⁻³ (PO ₄) ⁻³ (PO ₄) ⁻³ (PO ₄) ⁻³ amide	(CIO) ⁻¹	hypochlorite		
cyanide thiocyanate thiocyanate bisulfate or hydrogen sulfate dihydrogen phosphate dihydrogen phosphate $(C_6H_5O_7)^{-3}$ periodate iodate hypoiodite $(SiO_4)^{-4}$ amide formate	,			3-
thiocyanate bisulfate or hydrogen sulfate permanganate dihydrogen phosphate (C ₆ H ₅ O ₇) ⁻³ (PO ₄) ⁻³ periodate iodate hypoiodite (SiO ₄) ⁻⁴ amide	(CN)-1	cyanide	$(AsO_4)^{-3}$	arsenate
bisulfate or hydrogen sulfate permanganate dihydrogen phosphate (C ₆ H ₅ O ₇) ⁻³ (PO ₄) ⁻³ periodate iodate hypoiodite (SiO ₄) ⁻⁴ amide formate	(SCN)-1	thiocyanate	$(AsO_3)^{-3}$	arsenite
permanganate dihydrogen phosphate $(C_6H_5O_7)^{-3}$ $(PO_4)^{-3}$ periodate $(PO_3)^{-3}$ iodate $hypoiodite$ $SiO_4)^{-4}$ amide formate	$(\mathrm{HSO_4})^{-1}$	bisulfate or hydrogen sulfate	$(BO_3)^{-3}$	borate
dihydrogen phosphate $(C_6H_5O_7)^{-3}$ periodate $(PO_4)^{-3}$ iodate $(PO_3)^{-3}$ hypoiodite $(SiO_4)^{-4}$ amide formate	$(MnO_4)^{-1}$	permanganate	,	
periodate $(PO_4)^{-3}$ iodate $(PO_3)^{-3}$ hypoiodite $(SiO_4)^{-4}$ amide formate	$(H_2PO_4)^{-1}$	dihydrogen phosphate	$(C_6H_5O_7)^{-3}$	citrate
periodate $(PO_3)^{-3}$ iodate hypoiodite $(SiO_4)^{-4}$ amide formate			$(PO_4)^{-3}$	phosphate or tribasic phosphate
iodate hypoiodite amide formate	$({\rm IO_4})^{-1}$	periodate	$(PO_3)^{-3}$	phosphite
hypoiodite $(SiO_4)^{-4}$ amide formate	$(10_3)^{-1}$	iodate		4-
	1-(OI)	hypoiodite	$(\mathrm{SiO_4})^{-4}$	silicate (ortho)
	(NH ₅) ⁻¹	amide		
	$(\mathrm{CHO}_2)^{-1}$	formate		

Atomic Ions	-1	F-1 Fluoride	Br ⁻¹ Bromide	I ⁻¹ iodide	-2		O-2 Oxide							•	-3		N ⁻³ Nitride	P-3 Phosphide				
Atomi	+1	Li ⁺¹ Lithium Na ⁺¹ Sodiim	K ⁺¹ Potassium	Cu^{+1} Copper (I)	+2	Mg ⁺² Magnesium		Ba ⁺² Barium	•			Fe ⁺² Iron (II)	Mn ⁺² Manganese (II)		+3	Al ⁺³ Aluminum	$ \operatorname{Fe}^{+3} $ Iron (III)		+4	Pb ⁺⁴ Lead (IV)		Mn ⁺⁴ Manganese (IV)