

DATA SHEET

Avogadro constant, N_A	$6.022 \times 10^{23} \text{ mol}^{-1}$
Volume of 1 mole ideal gas: at 100 kPa and	
at 0°C (273.15 K)	22.71 L
at 25°C (298.15 K)	24.79 L
Ionisation constant for water at 25°C (298.15 K), K_w	1.0×10^{-14}
Specific heat capacity of water	$4.18 \times 10^3 \text{ J kg}^{-1} \text{ K}^{-1}$

Some useful formulae

$$\text{pH} = -\log_{10}[\text{H}^+]$$

$$\Delta H = -m C \Delta T$$

Some standard potentials

$\text{K}^+ + \text{e}^-$	vs	K(s)	-2.94 V
$\text{Ba}^{2+} + 2\text{e}^-$	vs	Ba(s)	-2.91 V
$\text{Ca}^{2+} + 2\text{e}^-$	vs	Ca(s)	-2.87 V
$\text{Na}^+ + \text{e}^-$	vs	Na(s)	-2.71 V
$\text{Mg}^{2+} + 2\text{e}^-$	vs	Mg(s)	-2.36 V
$\text{Al}^{3+} + 3\text{e}^-$	vs	Al(s)	-1.68 V
$\text{Mn}^{2+} + 2\text{e}^-$	vs	Mn(s)	-1.18 V
$\text{H}_2\text{O} + \text{e}^-$	vs	$\frac{1}{2}\text{H}_2(\text{g}) + \text{OH}^-$	-0.83 V
$\text{Zn}^{2+} + 2\text{e}^-$	vs	Zn(s)	-0.76 V
$\text{Fe}^{2+} + 2\text{e}^-$	vs	Fe(s)	-0.44 V
$\text{Ni}^{2+} + 2\text{e}^-$	vs	Ni(s)	-0.24 V
$\text{Sn}^{2+} + 2\text{e}^-$	vs	Sn(s)	-0.14 V
$\text{Pb}^{2+} + 2\text{e}^-$	vs	Pb(s)	-0.13 V
$\text{H}^+ + \text{e}^-$	vs	$\frac{1}{2}\text{H}_2(\text{g})$	0.00 V
$\text{SO}_4^{2-} + 4\text{H}^+ + 2\text{e}^-$	vs	$\text{SO}_2(\text{aq}) + 2\text{H}_2\text{O}$	0.16 V
$\text{Cu}^{2+} + 2\text{e}^-$	vs	Cu(s)	0.34 V
$\frac{1}{2}\text{O}_2(\text{g}) + \text{H}_2\text{O} + 2\text{e}^-$	vs	2OH^-	0.40 V
$\text{Cu}^+ + \text{e}^-$	vs	Cu(s)	0.52 V
$\frac{1}{2}\text{I}_2(\text{s}) + \text{e}^-$	vs	I^-	0.54 V
$\frac{1}{2}\text{I}_2(\text{aq}) + \text{e}^-$	vs	I^-	0.62 V
$\text{Fe}^{3+} + \text{e}^-$	vs	Fe^{2+}	0.77 V
$\text{Ag}^+ + \text{e}^-$	vs	Ag(s)	0.80 V
$\frac{1}{2}\text{Br}_2(\text{l}) + \text{e}^-$	vs	Br^-	1.08 V
$\frac{1}{2}\text{Br}_2(\text{aq}) + \text{e}^-$	vs	Br^-	1.10 V
$\frac{1}{2}\text{O}_2(\text{g}) + 2\text{H}^+ + 2\text{e}^-$	vs	H_2O	1.23 V
$\frac{1}{2}\text{Cl}_2(\text{g}) + \text{e}^-$	vs	Cl^-	1.36 V
$\frac{1}{2}\text{Cr}_2\text{O}_7^{2-} + 7\text{H}^+ + 3\text{e}^-$	vs	$\text{Cr}^{3+} + \frac{7}{2}\text{H}_2\text{O}$	1.36 V
$\frac{1}{2}\text{Cl}_2(\text{aq}) + \text{e}^-$	vs	Cl^-	1.40 V
$\text{MnO}_4^- + 8\text{H}^+ + 5\text{e}^-$	vs	$\text{Mn}^{2+} + 4\text{H}_2\text{O}$	1.51 V
$\frac{1}{2}\text{F}_2(\text{g}) + \text{e}^-$	vs	F^-	2.89 V

Hsc Chemistry Data Sheet

JR Anderson

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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