

## COMMON CONVERSIONS AND CONSTANTS

### MAIN METRIC CONVERSIONS

Measurement	To Convert:	Multiply by: (Unless otherwise stated)		To give equivalent in:
<b>Area</b>	cm <sup>2</sup>	1.5500	x10 <sup>-1</sup>	in <sup>2</sup>
	m <sup>2</sup>	1.0764	x10	ft <sup>2</sup>
		1.1960		yd <sup>2</sup>
	are	1.1960	x10 <sup>2</sup>	yd <sup>2</sup>
		2.4711	x10 <sup>-1</sup>	ac
		1.0000	x10 <sup>2</sup>	m <sup>2</sup>
	ha	2.4711		ac
		1.0000	x10 <sup>4</sup>	m <sup>2</sup>
		1.0000	x10 <sup>-2</sup>	km <sup>2</sup>
		2.4711	x10 <sup>2</sup>	ac
	3.8610	x10 <sup>-1</sup>	mi <sup>2</sup>	
	1.0000	x10 <sup>2</sup>	ha	
<b>Length</b>	µm	10 <sup>-6</sup>		m
	cm	3.9370	x10 <sup>-1</sup>	in
		3.2808	x10 <sup>-2</sup>	ft
	m	3.9370	x10	in
		3.2808		ft
		1.0936		yd
	km	6.2137	x10 <sup>-1</sup>	mi
<b>Mass</b>	g	3.5274	x10 <sup>-2</sup>	oz
	kg	2.2046		lb
		1.0000	x10 <sup>-2</sup>	quintals
	quintal	1.0000	x10 <sup>2</sup>	kg
		1.0000	x10 <sup>-1</sup>	t
	t	2.2046	x10 <sup>-3</sup>	lb
		9.8421	x10 <sup>-1</sup>	imperial tons (long tons)
		1.1023		US tons (short tons)
	1.0000	x10 <sup>3</sup>	kg	
<b>Power</b>	W	7.3756	x10 <sup>-1</sup>	ft lbf s <sup>-1</sup>
		1.3410	x10 <sup>-3</sup>	hp (UK)
	hp (metric)	9.8632	x10 <sup>-1</sup>	hp (UK)
<b>Pressure</b>	cm (head of water)	1.03	x10 <sup>3</sup>	lbf in <sup>-2</sup> (psi)
		9.703	x10 <sup>-4</sup>	atmospheres (atm)
		1.002	x10 <sup>-3</sup>	kgf cm <sup>-2</sup>
		9.833	x10 <sup>-4</sup>	bar
		9.8	x10 <sup>-2</sup>	kPa
	mm (head of Hg)	3.9370	x10 <sup>-2</sup>	in (head of Hg)
		1.3332	x10 <sup>-3</sup>	kPa
		1.3332	x10 <sup>-5</sup>	bar
	kPa (also kN m <sup>-2</sup> )	1.4504	x10 <sup>-1</sup>	lbf in <sup>-2</sup> (psi)
		2.0885	x10	lbf ft <sup>-2</sup>
		2.953	x10 <sup>-4</sup>	in (head of Hg)
		1.000	x10 <sup>-2</sup>	bar
	kgf cm <sup>-2</sup>	1.4223	x10	lbf in <sup>-2</sup> (psi)
		9.678	x10 <sup>-1</sup>	atmosphere (atm)
		9.39	x10 <sup>-4</sup>	cm (head of water)
		9.804	x10 <sup>-1</sup>	bar
		1.4504	x10	lbf in <sup>-2</sup> (psi)
		9.8693	x10 <sup>-1</sup>	atmosphere (atm)
		2.953	x10	in (head of Hg)
		1.017	x10 <sup>3</sup>	cm (head of water)
	1.020		kgf cm <sup>-2</sup>	

**COMMON CONVERSIONS AND CONSTANTS (cont'd)**

**MAIN METRIC CONVERSIONS**

<b>Temperature</b>	<b>°C</b>	<b>x by 9/5 and then add 32</b>		<b>°F</b>	
	<b>K</b>	<b>subtract 273.2</b>		<b>°C</b>	
<b>Velocity</b>	cm h <sup>-1</sup>	9.110	x10 <sup>-5</sup>	ft s <sup>-1</sup> (fps)	
		2.778	x10 <sup>-5</sup>	m s <sup>-1</sup>	
		2.400	x10 <sup>-1</sup>	m day <sup>-1</sup>	
	m s <sup>-1</sup>	3.2808		ft s <sup>-1</sup> (fps)	
		2.237		ml h <sup>-1</sup> (mph)	
		3.6000	x10 <sup>4</sup>	cm h <sup>-1</sup>	
	m day <sup>-1</sup>	8.6400	x10 <sup>3</sup>	m day <sup>-1</sup>	
		3.6000		km h <sup>-1</sup>	
		3.796	x10 <sup>-4</sup>	ft s <sup>-1</sup> (fps)	
	km h <sup>-1</sup>	1.157	x10 <sup>-1</sup>	m s <sup>-1</sup>	
		4.1667		cm h <sup>-1</sup>	
		9.113	x10 <sup>-1</sup>	ft s <sup>-1</sup> (fps)	
			6.2137	x10 <sup>-1</sup>	ml h <sup>-1</sup> (mph)
			2.778	x10 <sup>-1</sup>	m s <sup>-1</sup>