

## Metric Prefixes and Symbols

MULTIPLICATION FACTOR	PREFIX	SYMBOL
1 000 000 000 000 000 000 = 10 <sup>18</sup>	exa	E
1 000 000 000 000 000 = 10 <sup>15</sup>	peta	P
1 000 000 000 000 = 10 <sup>12</sup>	tera	T
1 000 000 000 = 10 <sup>9</sup>	giga	G
1 000 000 = 10 <sup>6</sup>	mega	M
1 000 = 10 <sup>3</sup>	kilo	k
100 = 10 <sup>2</sup>	hecto	h
10 = 10 <sup>1</sup>	deka	da
0.1 = 10 <sup>-1</sup>	deci	d
0.01 = 10 <sup>-2</sup>	centi	c
0.001 = 10 <sup>-3</sup>	milli	m
0.000 001 = 10 <sup>-6</sup>	micro	μ
0.000 000 001 = 10 <sup>-9</sup>	nano	n
0.000 000 000 001 = 10 <sup>-12</sup>	pico	p
0.000 000 000 000 001 = 10 <sup>-15</sup>	femto	f
0.000 000 000 000 000 001 = 10 <sup>-18</sup>	atto	a



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**FULL SERVICE TESTING**

- ENVIRONMENTAL
- FUNCTIONAL
- DEVELOPMENT



**RELIABILITY THROUGH TESTING.**

LABORATORIES, INC.

# Conversion Units

MULTIPLY BY TO OBTAIN

## VOLUME

cm <sup>3</sup>	0.06103	in <sup>3</sup>
ft <sup>3</sup>	7.4805	Gallons
ft <sup>3</sup>	28.316	Liters
ft <sup>3</sup>	1728	in <sup>3</sup>
Gallons	0.1337	ft <sup>3</sup>
Gallons	3.785	Liters
Gallons	231	in <sup>3</sup>
Liters	1.057	Quarts
Liters	2.113	Pints

## MISCELLANEOUS

BTU	252	Calories
Kilograms	2.205	Pounds
KWH	3412	BTU
Ounces	28.35	Grams
Pounds	0.4536	Kilograms
Pounds	453.5924	Grams
Therms	100000	BTU
HP	746	Watts

MULTIPLY BY TO OBTAIN

## PRESSURE

Grams Per cm <sup>2</sup>	0.0142	Psi
In. of Hg	0.4912	Psi
In. of Hg	1.133	Feet of Water
In. of Water	0.0361	Psi
In. of Water	0.0735	In. of Hg
In. of Water	0.5781	Ounces Per in <sup>2</sup>
In. of Water	5.204	Pounds Per ft <sup>2</sup>
Kg Per cm <sup>2</sup>	14.22	Psi
KPa	0.01	BAR
KPa	0.145	Psi
Kg Per m <sup>2</sup>	0.2048	Pounds Per ft <sup>2</sup>
Psi	0.06804	Atm
Psi	2.036	In. of Hg
Psi	2.307	Feet of Water
Psi	0.06895	BAR
Psi	27.68	In. of Water

## LENGTH

Centimeters	0.3937	Inches
Feet	0.3048	Meters
Feet	30.48	Centimeters
Feet	304.8	Millimeters
Inches	2.540	Centimeters
Inches	25.40	Millimeters
Kilometers	0.6214	Miles
Meters	1.094	Yards
Meters	3.281	Feet
Meters	39.37	Inches
Miles (Nautical)	1852	Meters
Miles (Statute)	1609	Meters
Yards	0.9144	Meters
Yards	91.44	Centimeters

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# AERO NAV LABORATORIES, INC.

## Temperature Conversion Table

°C	°F	°C	°F	°C	°F	°C	°F
-200	-328	-10	14	110	230	470	878
-180	-292	-5	23	120	248	480	896
-160	-256	0	32	130	266	490	914
-140	-220	5	41	140	284	500	932
-120	-184	10	50	150	302	510	950
-100	-148	15	59	160	320	520	968
-95	-139	20	68	170	338	530	986
-90	-130	25	77	180	356	540	1004
-85	-121	30	86	190	374	550	1022
-80	-112	35	95	200	392	560	1040
-75	-103	40	104	210	410	570	1058
-70	-94	45	113	220	428	580	1076
-65	-85	50	122	230	446	590	1094
-60	-76	55	131	240	464	600	1112
-55	-67	60	140	250	482	610	1130
-50	-58	65	149	260	500	620	1148
-45	-49	70	158	270	518	630	1166
-40	-40	75	167	280	536	640	1184
-35	-31	80	176	290	554	650	1202
-30	-22	85	185	300	572	660	1220
-25	-13	90	194	310	590	670	1238
-20	-4	95	203	320	608	680	1256
-15	5	100	212	330	626	690	1274
				340	644	700	1292
				350	662	710	1310
				360	680	720	1328
				370	698	730	1346
				380	716	740	1364
				390	734	750	1382
				400	752	760	1400
				410	770	770	1418
				420	788	780	1436
				430	806	790	1454
				440	824	800	1472
				450	842	810	1490
				460	860	820	1508

### Conversion Formulas

$$^{\circ}\text{C} = 5/9 (^{\circ}\text{F} - 32)$$

$$^{\circ}\text{F} = 9/5 ^{\circ}\text{C} + 32$$

$$^{\circ}\text{K} = ^{\circ}\text{C} + 273$$

$$^{\circ}\text{R} = ^{\circ}\text{F} + 460$$

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