

CONVERSION CHARTS AND MULTIPLIERS

Volume

	US- FL.OZ	US- LIQ.PT	US- LIQ.QT.	IN ³	CM ³	MILL- LITRE	DECI- LITRE	LITRE
(US) FL.OZ	1	0.0625	0.03125	1.8047	29.574	29.574	0.2957	0.0296
(US) LIQ.PT	16	1	0.5	28.875	473.18	473.18	4.7316	0.4732
(US) LIQ.QT.	32	2	1	57.75	946.35	946.35	9.4633	0.9463
IN ³	0.5541	0.03463	0.01732	1	16.387	16.387	0.1639	0.0164
CM ³	0.0338	0.00211	0.00106	0.06102	1	1	0.01	0.001
MILL- LITRE	0.0338	0.00211	0.00106	0.06102	1	1	0.01	0.001
DECI- LITRE	33.815	0.2113	0.1057	6.1025	100	100	1	0.1
LITRE	33.815	2.1134	10567	61.025	1000	1000	10	1

Volume

	CM ³	FT ³	IN ³	M ³	GAL. (US)	LITRE
CM ³	1	0.00003531	0.0610237	0.000001	0.00025641	0.001
FT ³	28316.847	1	1728	0.02831685	7.480519	28.316847
IN ³	16.387064	0.0005787	1	0.00001637	0.0043290	0.0163871
M ³	1000000	35.31467	61023.74	1	264.172	1000
GAL.(US)	3785.412	0.13368056	231	0.00378541	1	3.785412
LITRE	1000	0.3531467	61.023754	0.001	0.2641721	1

Weight

	GMS	KG	MG	OZ	LBS	TONS (SHORT)
GMS	1	0.001	1000	0.0352740	0.022046	1.102 x 10 ⁻⁶
KG	1000	1	1000000	35.273962	2.2046226	0.0011023
MG	0.001	0.000001	1	3.5274 x 10 ⁻⁵	2.2046 x 10 ⁻⁶	1.102 x 10 ⁻⁹
OZ	28.34952	0.0283495	28349.5	1	0.0625	3.125 - 10 ⁻⁵
LBS	453.59237	0.4535924	453592	16	1	0.0005
TONS (SHORT)	907185	907.18474	9.07185 x 10 ⁸	32000	2000	1

Pressure

	ATM	BARS	FT of H2O @ 60°F	IN. of HG @ 0°C	IN of H2O @ 60°F	KG/CM ²	KPA	PSIG
ATM	1	1.01325	33.932	29.921	407.1827	1.0332	101.3171	14.696
BARS	0.98692	1	33.4883	29.530	401.8596	1.019716	100	14.50368
FT of H2O @ 60°F	0.02947	0.029891	1	0.882646	12	0.03048	2.9890	0.433107
IN. of HG @ 0°C	0.03342	0.033864	1.1340	1	13.6	0.034532	3.376895	0.49115
IN of H2O @ 60°F	0.00246	0.002499	0.083333	0.073556	1	0.0254	0.0249089	0.03609
KG/CM ²	0.96787	0.980665	32.8084	28.95903	393.7008	1	98.03922	14.22334
KPA	0.00987	0.010	0.33456	0.29613	4.01472	0.01020	1	0.14504
PSI	0.06805	0.068948	2.3089	2.0360	27.70851	0.070307	6.89465	1

Flow

	CM ³ /MIN	CM ³ /SEC	FT ³ /HR	FT ³ /MIN	M ³ /HR	M ³ /MIN	L/HR	LPM
CM ³ /MIN	1	0.0166667	0.0021189	0.0000353	0.00006	0.000001	0.06	0.001
CM ³ /SEC	60	1	0.1271340	0.0021189	0.0036	0.00006	3.6	0.06
FT ³ /HR	471.9474	7.865790	1	0.0166667	0.0283168	0.0004719	28.31685	0.47195474
FT ³ /MIN	28316.85	471.9474	60	1	1.699008	0.02833168	1699.008	28.31685
M ³ /HR	16666.67	277.7778	35.31467	0.5885777	1	0.0166667	1000	16.66667
M ³ /MIN	1000000	16666.67	2118.876	35.31467	60	1	60000	1000
L/HR	16.66667	0.2777778	0.0353147	0.0005885	0.001	0.0000167	1	0.0166667
LPM	1000	16.66667	2.118876	0.0353147	0.06	0.001	60	1

CONCENTRATION EQUIVALENTS

CONCENTRATION	EQUIVALENT
1,000,000 PPM	100 %
100,000 PPM	10.0 %
10,000 PPM	1.0 %
1,000 PPM	0.1 %
100 PPM	0.01 %
10 PPM	0.001 %
1 PPM	0.0001 %
1,000 PPB	1 PPM
100 PPB	0.1 PPM
10 PPB	0.01 PPM
1 PPB	0.001 PPM

Other Conversions

Grams / Density = cm³ -or- ml (liquid)
 Moles / 1.173 = ft³
 Moles x 24.45 = liters
 28.71 liters = 1 ft³
 Atmospheres x 1.0355 = kg / sq. cm.
 Atmospheres x 760 = Millimeters of Mercury (0^oc)
 Atmospheres x 29.9213 = Inches of Mercury (0^oc)
 Cubic ft x 0.028317 = cubic meters
 Btu x 0.25198 = kilopascals
 Psia x 6.894757 = kilopascals
 Psia / 14.89 = bars
 Psia x 0.070307 = kg / sq.cm.
 Kg / sq.cm. x 98.0665 = kilopascals
 Grams / mole weight x 24.414 x 1000 = ml (gas)
 Millimeters of Mercury / 51.7 = psia

Liquid Volume % x Density = Weight Frac.; Weight Frac. / Total Weight Frac. X 100 = Weight %
 Weight % / Density = Liquid Vol. Frac.; Liquid Vol. Frac./ Total Liquid Vol. Frac. x 100 = Liq. Vol. %
 Weight % / Mole Weight = Mole Frac.; Mole Frac. / Total mole Frac. x 100 = Mole %
 Grams / Density = Liquid Vol. Frac.; Liquid Vol. Frac. / Total Liquid Vol. Frac x 100 = Liquid Vol. %
 Grams / Mole Weight = Mole Frac.; Mole Frac. / Total Mole Frac. x 100 = Mole %
 Total grams / Avg. Mole Weight = Moles
 ug / ul = avg. mole weight x 24.45 = litres = gms. / litres
 Btu / cu. Ft. x 8.898 = kg / sq.cm.
 Cu.ft. of h₂o capacity = cu.ft.@ 1 atmosphere
 Psia x 0.0703 = kg / sq.cm.
 O₂ as Argon – lower gms. By 9 %
 1145.5 gms. N₂ / m³ @ 101.325 kpa @ 25^oC

Distance

1 in = 25.4 mm
 1 in = 2.54 cm
 1 mm = 0.03937 in
 1 cm = 0.3937 in
 1 yd = 0.914 m
 1 m = 1.093 yd
 1 m = 1.093 yd
 1 m = 3.2808 ft
 1 mile = 1.609 km
 1 km = 0.6214 miles

Area

1 ft² = 144 in² = 929.03 cm²
 1 in² = 6.4516 cm²
 1 cm² = 0.155 in²
 1 yd² = 9 ft² = 0.82 m²
 1 ft² = 0.092 m²
 1 m² = 10.8 ft²