

26.5: Units and Conversion Factors

1 m	=	10 ⁻¹⁰ Å
	=	3.280840 ft
	=	39.37008 in
1 kg	=	2.204622 lb
1 lb	=	453.5925 g
1 m ³	=	10 ³ L
	=	35.31467 ft ³
	=	264.1720 US liquid gallon
1 N	=	1 kg m s ⁻²
	=	1 Pa m ²
	=	10 ⁻⁵ bar m ²
	=	10 ⁵ dyne (g cm s ⁻²)
	=	0.1382550 poundal
1 bar	=	10 ⁵ Pa
	=	10 ⁵ N m ⁻²
	=	0.98692 atm
	=	750.064 torr
1 atm	=	101325 Pa
	=	1.01325 bar
1 J	=	1 N m
	=	1 Pa m ³
	=	1 W s
	=	2 C V
	=	10 ⁷ erg (g cm ² s ⁻²)
	=	10 ⁻⁵ bar m ³
	=	10 ⁻² bar L
	=	9.86923 × 10 ⁻³ L atm
	=	0.2390 cal
1 cal	=	4.184 J
1 eV	=	1.602176462 × 10 ⁻¹⁹ J
		(Energy released when one electron experiences a potential change of one volt.)

Conversion factors in this table are given by, or calculated from, values given by David R. Lide, *CRC Handbook of Chemistry and Physics*, 79th Ed., CRC Press, 1999-2000, pp. 1-24 to 1-31, reproduced from *NIST Special Publication 811, Guide for the Use of the International System of Units* (Superintendent of Documents, U. S. Government Printing Office, 1991).

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