Pressure Conversion Information Tables

These data tables are provided as general formulae for converting from one pressure designation to another, and as general atmospheric pressure, based on elevation but with no consideration for temperature, other than standard.

Pressure Conversion Formulae

To convert	Into	Multiply by
atmosphere	bar	1.01295
atmosphere	dynes/cm^2	1.01295 x 10^6
atmosphere	in. Hg	29.9213
atmosphere	in. water	406.86
atmosphere	kg/cm^2	1.03325
atmosphere	mbar	1012.95
atmosphere	mtorr or micron Hg	7.6 x 10^5
atmosphere	Pa or N/m^2	1.01295 x 10^5
atmosphere	PSI or lb/in^2	14.696
atmosphere	torr or mm Hg	760
bar	atmosphere	0.9872
bar	dynes/cm^2	1 x 10^6
bar	in. Hg	29.54
bar	in. water	401.65
bar	kg/cm^2	1.02
bar	mbar	1000
bar	mtorr or micron Hg	7.5028 x 10^5

bar	Pa or N/m^2	1×10^5
bar	psi or lb/in^2	14.508
bar	torr or mm Hg	750.2838
$dynes/cm^2$	atmosphere	9.872×10^{-7}
$dynes/cm^2$	bar	1×10^{-6}
$dynes/cm^2$	in. Hg	2.954×10^{-5}
$dynes/cm^2$	in. water	4.0165×10^{-4}
$dynes/cm^2$	kg/cm^2	1.0200×10^{-6}
$dynes/cm^2$	mbar	1×10^{-3}
$dynes/cm^2$	mtorr or micron Hg	0.75028
$dynes/cm^2$	Pa or N/m^2	0.1
$dynes/cm^2$	psi or lb/in^2	1.4508×10^{-5}
$dynes/cm^2$	torr or mm Hg	7.5028×10^{-4}
in. Hg	atmosphere	3.342×10^{-2}
in. Hg	bar	3.385×10^{-2}
in. Hg	$dynes/cm^2$	3.385×10^4
in. Hg	in. water	13.598
in. Hg	kg/cm^2	3.4532×10^{-2}
in. Hg	mbar	33.85
in. Hg	mtorr or micron Hg	2.54×10^4
in. Hg	Pa or N/m^2	3385
in. Hg	psi or lb/in^2	0.4912
in. Hg	torr or mm Hg	25.4
in. water	atmosphere	2.458×10^{-3}
in. water	bar	2.489×10^{-3}

in. water	dynes/cm^2	2.489 x 10^{-3}
in. water	kg/cm^2	2.5396 x 10^{-3}
in. water	in. Hg	7.354 x 10^{-2}
in. water	mbar	2.489
in. water	mtorr or micron Hg	1.868 x 10^{-3}
in. water	Pa or N/m^2	248.9
in. water	psi or lb/in^2	3.612 x 10^{-2}
in. water	torr or mm Hg	1.868
kg/cm^2	atmosphere	0.9678
kg/cm^2	bar	0.9804
kg/cm^2	dynes/cm^2	9.804 x 10^5
kg/cm^2	in. Hg	28.958
kg/cm^2	in. water	393.76
kg/cm^2	mbar	9.804 x 10^2
kg/cm^2	mtorr or micron Hg	7.3554 x 10^5
kg/cm^2	Pa or N/m^2	9.804 x 10^4
kg/cm^2	psi or lb/in^2	14.223
kg/cm^2	torr or mm Hg	7.3554 x 10^2
mbar	atmosphere	9.872 x 10^{-4}
mbar	bar	0.001
mbar	dynes/cm^2	1000
mbar	kg/cm^2	1.0200 x 10^{-3}
mbar	in. Hg	2.954 x 10^{-2}
mbar	in. water	0.4018
mbar	mtorr or micron Hg	7.5028 x 10^2

mbar	Pa or N/m^2	100
mbar	psi or lb/in^2	1.450×10^{-2}
mbar	torr or mm Hg	0.75028
mtorr or micron Hg	atmosphere	1.316×10^{-6}
mtorr or micron Hg	bar	1.3328×10^{-6}
mtorr or micron Hg	$dynes/cm^2$	1.3328
mtorr or micron Hg	kg/cm^2	1.3595×10^{-6}
mtorr or micron Hg	in. Hg	3.937×10^{-5}
mtorr or micron Hg	in. water	5.353×10^{-4}
mtorr or micron Hg	mbar	1.3328×10^{-3}
mtorr or micron Hg	Pa or N/m^2	0.13328
mtorr or micron Hg	psi or lb/in^2	1.934×10^{-5}
mtorr or micron Hg	torr or mm Hg	1×10^{-3}
Pa or N/m^2	atmosphere	9.869×10^{-6}
Pa or N/m^2	bar	1×10^{-5}
Pa or N/m^2	$dynes/cm^2$	10
Pa or N/m^2	kg/cm^2	1.020×10^{-5}
Pa or N/m^2	in. Hg	2.954×10^{-4}
Pa or N/m^2	in. water	4.018×10^{-3}
Pa or N/m^2	mbar	0.01
Pa or N/m^2	mtorr or micron Hg	7.5028
Pa or N/m^2	psi or lb/in^2	1.4508×10^{-4}
Pa or N/m^2	torr or mm Hg	7.5028×10^{-3}
psi or lb/in^2	atmosphere	0.06805
psi or lb/in^2	bar	0.06893

psi or lb/in^2	$dynes/cm^2$	6.8927×10^4
psi or lb/in^2	kg/cm^2	7.0309×10^{-2}
psi or lb/in^2	in. Hg	2.036
psi or lb/in^2	in. water	27.68
psi or lb/in^2	mbar	68.97
psi or lb/in^2	mtorr or micron Hg	5.171×10^4
psi or lb/in^2	Pa or N/m^2	6.8927×10^3
psi or lb/in^2	torr or mm Hg	51.71
torr or mm Hg	atmosphere	1.3158×10^{-3}
torr or mm Hg	bar	1.3328×10^{-3}
torr or mm Hg	$dynes/cm^2$	1.3328×10^{-3}
torr or mm Hg	kg/cm^2	1.3595×10^{-3}
torr or mm Hg	in. Hg	3.937×10^{-2}
torr or mm Hg	in. water	0.5353
torr or mm Hg	mbar	1.3328
torr or mm Hg	mtorr or micron Hg	1000
torr or mm Hg	Pa or N/m^2	133.28
torr or mm Hg	psi or lb/in^2	1.934×10^{-2}

Elevation In Feet To Standard Air Pressure

Elevation in feet	psi	Torr	Inches of HG	Inches of HG - standard atmosphere	Pa
-3280	16.52	854.3318	33.63472	-3.70552	113901.224
-1640	15.59	806.2369	31.74124	-1.81204	107489.109
0	14.7	760.2105	29.9292	0	101352.784
820	14.26	737.4559	29.03336	0.89584	98319.0955
1640	13.85	716.2528	28.1986	1.7306	95492.2491
2461	13.44	695.0496	27.36384	2.56536	92665.4028
3281	13.03	673.8465	26.52908	3.40012	89838.5564
4101	12.64	653.6776	25.73504	4.19416	87149.605
4921	12.26	634.0259	24.96136	4.96784	84529.601
5742	11.89	614.8914	24.20804	5.72116	81978.5446
6562	11.53	596.274	23.47508	6.45412	79496.4356
8202	10.83	560.0735	22.04988	7.87932	74670.1125
9843	10.17	525.9416	20.70612	9.22308	70119.5793
11483	9.54	493.3611	19.42344	10.50576	65775.8886
13123	8.94	462.3321	18.20184	11.72736	61639.0402
14764	8.38	433.3717	17.06168	12.86752	57777.9818
16404	7.84	405.4456	15.96224	13.96696	54054.8183
18045	7.33	379.071	14.92388	15.00532	50538.4972
19685	6.85	354.2478	13.9466	15.9826	47229.0185
21325	6.39	330.4589	13.01004	16.91916	44057.4348

22966	5.96	308.2214	12.13456	17.79464	41092.6935
24606	5.56	287.5354	11.32016	18.60904	38334.7946
26247	5.17	267.3666	10.52612	19.40308	35645.8432
27887	4.81	248.7492	9.79316	20.13604	33163.7342
29528	4.47	231.1661	9.10092	20.82828	30819.5201
31168	4.15	214.6173	8.4494	21.4798	28613.201
32808	3.84	198.5856	7.81824	22.11096	26475.8294
36.089	3.29	170.1424	6.69844	23.23076	22683.7184
39370	2.81	145.3192	5.72116	24.20804	19374.2397
42651	2.41	124.6332	4.90676	25.02244	16616.3408
45932	2.06	106.5329	4.19416	25.73504	14203.1793
49212	1.74	89.9841	3.54264	26.38656	11996.8602
52493	1.5	77.5725	3.054	26.8752	10342.1208
55774	1.28	66.1952	2.60608	27.32312	8825.27645
59055	1.1	56.8865	2.2396	27.6896	7584.22195
62336	0.94	48.6121	1.91384	28.01536	6481.0624
65617	0.8	41.372	1.6288	28.3004	5515.79778
82021	0.37	19.13455	0.75332	29.17588	2551.05648
984245	0.17	8.79155	0.34612	29.58308	1172.10703
104986	0.13	6.72295	0.26468	29.66452	896.31714