

## ALTITUDE—PRESSURE CONVERSION TABLE

ALTITUDE FEET	PRESSURE				ALTITUDE FEET	PRESSURE			
	MBAR (1)	TORR	PSIA	IN. Hg.(2)		MBAR (1)	TORR	PSIA	IN. Hg.(2)
SEA LEVEL	1,013	760.0	14.69	29.92	63,000	62.65	46.99	.908	1.85
1,000	977.1	733.0	14.17	28.86	64,000	58.93	44.20	.864	1.76
2,000	941.9	706.6	13.66	27.82	65,000	56.89	42.67	.825	1.68
3,000	908.0	681.2	13.17	26.87	70,000	44.70	33.53	.613	1.32
4,000	874.0	656.3	12.69	25.84	75,000	33.36	25.02	.484	.985
5,000	843.1	632.5	12.23	24.90	80,000	27.84	20.88	.404	.822
—1 MILE—					85,000	21.89	16.46	.323	.648
6,000	811.9	609.1	11.77	23.98	90,000	17.33	13.03	.252	.513
7,000	781.8	586.5	11.34	23.09	95,000	14.19	10.67	.209	.420
8,000	752.6	564.6	10.91	22.23	100,000	11.01	8.28	.160	.326
9,000	724.2	543.3	10.50	21.39	110,000	7.15	5.36	.104	.211
10,000	696.7	522.7	10.10	20.58	120,000	4.71	3.53	.0682	.109
11,000	670.4	502.9	9.72	19.80	130,000	3.15	2.36	.0456	.0629
12,000	644.3	483.4	9.34	19.03	—25 MILES—				
13,000	619.6	464.8	8.99	18.30	140,000	2.13	1.60	.0309	.0530
14,000	595.2	446.5	8.63	17.58	150,000	1.47	1.10	.0213	.0438
15,000	571.8	429.0	8.29	16.89		1.33	—1000 Microns—		
16,000	549.2	412.0	7.96	16.22	160,000	1.00	.752	.0147	.0300
17,000	527.5	395.7	7.65	15.58	170,000	.708	.531	.0103	.0209
18,000	506.1	379.7	7.34	14.95	180,000	.491	.368	7.12x10 <sup>-3</sup>	.0145
19,000	485.9	364.5	7.05	14.35	190,000	.336	.252	4.88 "	9.94x10 <sup>-3</sup>
20,000	465.9	349.5	6.76	13.76	200,000	.225	.169	3.27 "	6.67 "
21,000	446.9	335.3	6.48	13.20	210,000	.148	.111	2.15 "	4.33 "
22,000	428.3	321.3	6.21	12.65		.133	—100 Microns—		
23,000	410.4	307.9	5.95	12.12	220,000	.0948	.0711	1.37 "	2.80 "
24,000	393.1	294.9	5.70	11.61	230,000	.0593	.0445	8.59x10 <sup>-4</sup>	1.75 "
25,000	376.6	282.5	5.46	11.12	240,000	.0347	.0260	5.20 "	1.05 "
26,000	360.3	270.3	5.22	10.64	250,000	.0209	.0157	3.03 "	6.17x10 <sup>-4</sup>
—5 MILES—						.0133	—10 Microns—		
27,000	344.7	258.6	5.03	10.18	260,000	.0117	8.76x10 <sup>-5</sup>	1.70 "	3.46 "
28,000	329.8	247.4	4.73	9.74	—50 MILES—				
29,000	315.2	236.5	4.57	9.31	270,000	6.37x10 <sup>-3</sup>	4.78 "	9.24x10 <sup>-4</sup>	1.88 "
30,000	301.4	226.1	4.37	8.90	280,000	3.45 "	2.59 "	4.90 "	1.02 "
31,000	288.2	216.2	4.18	8.51	290,000	1.87 "	1.40 "	2.71 "	5.52x10 <sup>-3</sup>
32,000	273.7	205.3	3.99	8.12		1.33 "	—1 Micron—		
33,000	262.7	197.1	3.81	7.76	300,000	1.06 "	7.99x10 <sup>-4</sup>	1.47x10 <sup>-3</sup>	2.99x10 <sup>-3</sup>
34,000	250.5	187.9	3.63	7.40	350,000	7.41x10 <sup>-4</sup>	5.56x10 <sup>-5</sup>	1.89x10 <sup>-4</sup>	2.23 "
35,000	239.0	179.3	3.47	7.06	400,000	1.80 "	1.35 "	2.61x10 <sup>-7</sup>	5.32x10 <sup>-7</sup>
36,000	227.9	170.9	3.30	6.73	450,000	7.05x10 <sup>-5</sup>	5.29x10 <sup>-6</sup>	1.22 "	2.48 "
37,000	217.1	162.8	3.15	6.41	500,000	4.97 "	3.73 "	7.22x10 <sup>-4</sup>	1.47 "
38,000	207.3	155.5	3.00	6.12	—100 MILES—				
39,000	197.5	148.1	2.86	5.83	600,000	2.35 "	1.76x10 <sup>-6</sup>	3.41x10 <sup>-4</sup>	6.54x10 <sup>-4</sup>
40,000	188.3	141.2	2.73	5.56	700,000	1.20 "	9.02x10 <sup>-7</sup>	1.80 "	3.07 "
41,000	179.5	134.6	2.60	5.30	800,000	6.87x10 <sup>-6</sup>	5.16 "	9.97x10 <sup>-5</sup>	2.03 "
42,000	171.1	128.3	2.48	5.05	900,000	3.95 "	2.97 "	5.74 "	1.17 "
43,000	162.9	122.2	2.36	4.81	1,000,000	2.37 "	1.78 "	3.44 "	7.00x10 <sup>-5</sup>
44,000	155.5	116.6	2.25	4.59	—200 MILES—				
45,000	148.4	111.3	2.15	4.38	1,100,000	1.47 "	1.10 "	2.11 "	4.30 "
46,000	141.2	105.9	2.05	4.17	1,200,000	9.21x10 <sup>-7</sup>	6.91x10 <sup>-4</sup>	1.04 "	2.72 "
47,000	134.8	101.1	1.95	3.98	1,300,000	5.96 "	4.47 "	8.64x10 <sup>-6</sup>	1.76 "
48,000	128.4	96.27	1.85	3.79	1,400,000	3.96 "	2.97 "	5.74 "	1.12 "
49,000	122.3	91.69	1.77	3.61	1,500,000	2.71 "	2.03 "	3.87 "	7.88x10 <sup>-6</sup>
50,000	116.5	87.38	1.70	3.44	1,600,000	1.44 "	1.08 "	2.66 "	5.42 "
51,000	111.1	83.31	1.61	3.28	1,700,000	1.27 "	9.66x10 <sup>-5</sup>	1.87 "	3.80 "
52,000	106.0	79.50	1.54	3.13	1,800,000	9.15x10 <sup>-6</sup>	6.86 "	1.33 "	2.70 "
—10 MILES—					1,900,000	6.53 "	4.95 "	9.57x10 <sup>-6</sup>	1.95 "
53,000	100.9	75.69	1.46	2.98	2,000,000	4.81 "	3.61 "	6.97 "	1.42 "
54,000	96.18	72.14	1.39	2.84	—400 MILES—				
55,000	91.77	68.83	1.33	2.71					
56,000	87.72	65.79	1.27	2.59					
57,000	83.30	62.48	1.21	2.46					
58,000	78.78	59.09	1.15	2.35					
59,000	75.86	56.90	1.10	2.24					
60,000	72.48	54.36	1.05	2.11					
61,000	69.09	51.82	1.00	2.01					
62,000	65.71	49.28	.953	1.91					

- 1) To obtain the recognized SI Unit Pa (Pascal = Newtons/Square Meter) multiply MBAR X 100 or TORR X 133.3.
- (2) The Inch scale is often expressed in reverse (30" of Vacuum). Subtract the value in the IN. Hg. column from 30 to obtain "Inches of Vacuum".

### CONVERSION FACTORS

1 mm. Hg. 0.03937 In. Hg. 0.5357 In H <sub>2</sub> O @15 Deg C 0.019339 PSIA	1 Micron Hg.=0.001 mm. Hg. @32 Deg F=1,000 Microns 0.00003937 in. Hg. 0.00001934 PSIA	1 Standard Atmosphere = 29.921 in. Hg. @ 32Deg F 760 mm. Hg. 14.696 PSIA
1 PSIA =2.006 In. Hg. 27.70 In. H <sub>2</sub> O 51.7147 mm. Hg.	1 inch Hg.= 0.49116 PSIA @32 Deg F 25.400 mm.Hg. 13.61 in H <sub>2</sub> O	