



Grains of Moisture in a Saturated Ft³ of Compressed Air

°C	°F	Pressure PSIG																	
		0	40	50	60	70	80	90	100	105	110	120	140	150	175	200	300	400	500
-73.3	-100	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
-62.2	-80	0.006	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.008	0.008	0.008
-51.1	-60	0.024	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.026	0.026	0.026	0.026	0.026	0.026	0.028	0.029	0.030
-40.0	-40	0.078	0.079	0.079	0.080	0.080	0.080	0.080	0.081	0.081	0.081	0.081	0.082	0.082	0.083	0.084	0.087	0.090	0.094
-28.8	-20	0.221	0.224	0.224	0.225	0.226	0.227	0.227	0.228	0.228	0.229	0.230	0.231	0.232	0.234	0.236	0.244	0.252	0.260
-23.3	-10	0.357	0.362	0.363	0.364	0.365	0.366	0.368	0.369	0.369	0.370	0.371	0.373	0.374	0.377	0.380	0.392	0.405	0.418
-17.7	0	0.565	0.572	0.574	0.575	0.577	0.579	0.580	0.582	0.583	0.584	0.586	0.589	0.591	0.595	0.599	0.617	0.636	0.655
-12.2	10	0.875	0.884	0.887	0.889	0.892	0.894	0.897	0.899	0.900	0.902	0.904	0.909	0.912	0.918	0.924	0.950	0.977	1.004
-6.6	20	1.325	1.339	1.342	1.346	1.350	1.353	1.357	1.360	1.362	1.364	1.367	1.374	1.378	1.387	1.396	1.433	1.471	1.510
1.6	35	2.383	2.407	2.412	2.418	2.424	2.430	2.436	2.442	2.444	2.447	2.453	2.465	2.471	2.486	2.501	2.562	2.624	2.688
4.4	40	2.873	2.900	2.906	2.913	2.920	2.927	2.934	2.941	2.944	2.948	2.954	2.968	2.975	2.993	3.010	3.082	3.155	3.229
10.0	50	4.120	4.157	4.166	4.175	4.185	4.194	4.203	4.213	4.217	4.222	4.231	4.250	4.260	4.283	4.307	4.404	4.502	4.603
15.5	60	5.815	5.864	5.877	5.889	5.901	5.914	5.926	5.939	5.945	5.951	5.964	5.989	6.001	6.033	6.065	6.194	6.325	6.460
21.1	70	8.084	8.149	8.165	8.182	8.198	8.214	8.231	8.247	8.255	8.264	8.280	8.313	8.330	8.372	8.414	8.583	8.756	8.933
26.6	80	11.08	11.16	11.19	11.21	11.23	11.25	11.27	11.29	11.30	11.31	11.34	11.38	11.40	11.45	11.51	11.73	11.95	12.183
32.2	90	14.98	15.09	15.12	15.15	15.17	15.20	15.29	15.26	15.27	15.28	15.31	15.37	15.39	15.46	15.53	15.82	16.11	16.400
35.0	95	17.34	17.46	17.49	17.52	17.56	17.59	17.62	17.65	17.66	17.68	17.71	17.77	17.81	17.88	17.96	18.28	18.61	18.940
37.7	100	20.01	20.14	20.18	20.21	20.25	20.28	20.32	20.35	20.37	20.39	20.42	20.50	20.53	20.62	20.71	21.07	21.44	21.809
40.5	105	23.01	23.17	23.21	23.25	23.29	23.33	23.37	23.40	23.42	23.44	23.48	23.56	23.60	23.70	23.80	24.21	24.62	25.038
43.3	110	26.40	26.57	26.61	26.66	26.70	26.75	26.79	26.83	26.86	26.88	26.92	27.01	27.06	27.17	27.28	27.74	28.20	28.666
46.1	115	30.19	30.39	30.43	30.48	30.53	30.58	30.63	30.68	30.71	30.73	30.78	30.88	30.93	31.06	31.18	31.69	32.21	32.279
48.8	120	34.43	34.65	34.71	34.76	34.82	34.87	34.93	34.98	35.01	35.04	35.09	35.21	35.26	35.40	35.54	36.11	36.68	37.269
51.6	125	39.17	34.36	39.48	39.54	39.60	39.66	39.72	39.78	39.82	39.85	39.91	40.03	40.09	40.25	40.41	41.04	41.68	42.329
54.4	130	44.45	44.72	44.79	44.85	44.92	44.99	45.06	45.13	45.16	45.20	45.26	45.40	45.47	45.64	45.82	46.52	47.23	47.955
60.0	140	56.97	57.13	57.21	57.29	57.38	57.46	57.55	57.63	57.67	57.71	57.80	57.97	58.05	58.27	58.48	59.34	60.22	61.102
65.5	150	71.88	72.29	72.39	72.49	72.59	72.70	72.80	72.90	72.95	73.00	73.11	73.31	73.42	73.68	73.94	74.99	76.05	77.136
79.4	175	124.63	125.28	125.44	125.61	125.77	125.93	126.1	126.26	126.35	126.43	126.59	126.92	127.09	127.5	127.92	129.6	131.3	133.0
93.3	200	205.61	206.62	206.87	207.13	207.38	207.63	207.89	208.14	208.27	208.4	208.65	209.16	209.42	210.06	210.71	213.3	215.93	218.59
121.1	250	494.17	495.54	496.09	496.65	497.2	497.75	498.31	498.86	499.14	499.42	500.0	501.09	501.65	503.0	504.44	510.09	515.8	521.57
148.8	300	x	x	1036.9	1037.7	1038.7	1039.8	1040.9	1042.0	1042.5	1043.0	1044.1	1046.2	1047.3	1050.0	1052.7	1063.6	1074.6	1085.7
176.6	350	x	x	x	x	x	x	x	x	x	x	1953.9	1957.5	1959.3	1963.9	1968.4	1986.6	2005.0	2023.5
204.4	400	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	3369.9	3422.1	3447.5

Useful Compressed Air Conversions

1 M ³	=	35.3147 Ft ³
1 Ft ³	=	0.02831 M ³
1 M ³	=	35314.7 liters
1 Ft ³	=	28.3168 liters

1 lb/H ² O	=	7000 grains
1 gallon	=	58,417 grains
1 lb/in ²	=	0.0689 bar
1 lb/in ²	=	27.68 in/H ² O

1 Ft ³ /min	=	0.4719 liter/sec
1Ft ³ /min	=	1699.017 liters/hour
1 Ft ³ /min	=	1.6990 M ³ /hr

1 Ft ³	=	7.4805 gallons
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1 lb/in ²	=	0.068 atm
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