



Technical Note #103

Dewpoint Conversions

Gastec's Tube No. 6LP and Tube No. 6LLP are pipeline tubes measuring dewpoint in lb/MMCF. Table A allows users to find the dewpoint reading in the first column, then find the equivalent measurement in ppm and mg/L. Gastec's Tube No. 6 and Tube No. 6L are pipeline tubes measuring dewpoint in mg/L. Table B allows users to find the dewpoint reading in the first column, then find the equivalent measurement in lb/MMCF and ppm.

Key

- lb/MMCF = pounds per million cubic feet
- ppm = parts per million
- mg/L = milligrams per liter

Equivalents

- 1 ppm = 0.046 lb/MMCF
- 1 ppm = 0.0073 mg/L
- 1 lb/MMCF = 21.8 ppm
- 1 lb/MMCF = 0.016 mg/L
- 1 mg/L = 1,358 ppm
- 1 mg/L = 62.3 lb/MMCF

Table A : Measurements in ppm & mg/L

lb/MMCF	ppm	mg/L	lb/MMCF	ppm	mg/L
1	21.8	0.02	21	457.8	0.34
2	43.6	0.03	22	479.6	0.35
3	65.4	0.05	23	501.3	0.37
4	87.2	0.06	24	523.1	0.39
5	109.0	0.08	25	544.9	0.40
6	130.8	0.10	26	566.7	0.42
7	152.6	0.11	27	588.5	0.43
8	174.4	0.13	28	610.3	0.45
9	196.2	0.14	29	632.1	0.47
10	218.0	0.16	30	653.9	0.48
11	239.8	0.18	31	675.7	0.50
12	261.6	0.19	32	697.5	0.51
13	283.4	0.21	33	719.3	0.53
14	305.2	0.22	34	741.1	0.55
15	327.0	0.24	35	762.9	0.56
16	348.8	0.26	36	784.7	0.58
17	370.6	0.27	37	806.5	0.59
18	392.4	0.29	38	828.3	0.61
19	414.2	0.30	39	850.1	0.63
20	436.0	0.32	40	871.9	0.64

Table B: Measurements in lb/MMCF & ppm

mg/L	lb/MMCF	ppm	mg/L	lb/MMCF	ppm
0.05	3	68	14	872	19012
0.1	6	136	15	935	20370
0.2	12	272	16	997	21728
0.4	25	543	17	1059	23086
0.6	37	815	18	1121	24444
0.8	50	1086	19	1184	25802
1	62	1358	20	1246	27160
2	125	2716	21	1308	28518
3	187	4074	22	1371	29876
4	249	5432	23	1433	31234
5	312	6790	24	1495	32592
6	374	8148	25	1558	33950
7	436	9506	26	1620	35308
8	498	10864	27	1682	36666
9	561	12222	28	1744	38024
10	623	13580	29	1807	39382
11	685	14938	30	1869	40740
12	748	16296	31	1931	42098
13	810	17654	32	1994	43456



Also helpful in working with Gastec Tube No. 6LP is the Methanol Correction Slide Card, available by calling Nextteq at the number below or emailing Nextteq at info@nextteq.com. This handy slide card shows the user how to correct for the presence of methanol in natural gas pipelines, which can cause water vapor/dew point readings to read high.