

CONVERSION TABLE FOR GASES AND VAPORS*

(Milligrams per Liter to Parts per Million and Vice Versa;
25° C. and 760 mm. Mercury Barometric Pressure)

Molec- ular Weight	1 mg./l. p.p.m.	1 p.p.m. mg./l.	Molec- ular Weight	1 mg./l. p.p.m.	1 p.p.m. mg./l.	Molec- ular Weight	1 mg./l. p.p.m.	1 p.p.m. mg./l.
1	24.450	0.0000409	51	479	0.002086	101	242.1	0.00413
2	12.230	.0000818	52	470	.002127	102	239.7	.00417
3	8.150	.0001227	53	461	.002168	103	237.4	.00421
4	6.113	.0001636	54	453	.002209	104	235.1	.00425
5	4.890	.0002045	55	445	.002250	105	232.9	.00429
6	4.075	.0002454	56	437	.002290	106	230.7	.00434
7	3.493	.0002863	57	429	.002331	107	228.5	.00438
8	3.056	.000327	58	422	.002372	108	226.4	.00442
9	2.717	.000368	59	414	.002413	109	224.3	.00446
10	2.445	.000409	60	408	.002454	110	222.3	.00450
11	2.223	.000450	61	401	.002495	111	220.3	.00454
12	2.038	.000491	62	394	.00254	112	218.3	.00458
13	1.881	.000532	63	388	.00258	113	216.4	.00462
14	1.746	.000573	64	382	.00262	114	214.5	.00466
15	1.630	.000614	65	376	.00266	115	212.6	.00470
16	1.528	.000654	66	370	.00270	116	210.8	.00474
17	1.438	.000695	67	365	.00274	117	209.0	.00479
18	1.358	.000736	68	360	.00278	118	207.2	.00483
19	1.287	.000777	69	354	.00282	119	205.5	.00487
20	1.223	.000818	70	349	.00286	120	203.8	.00491
21	1.164	.000859	71	344	.00290	121	202.1	.00495
22	1.111	.000900	72	340	.00294	122	200.4	.00499
23	1.063	.000941	73	335	.00299	123	198.8	.00503
24	1.019	.000982	74	330	.00303	124	197.2	.00507
25	.978	.001022	75	326	.00307	125	195.6	.00511
26	.940	.001063	76	322	.00311	126	194.0	.00515
27	.906	.001104	77	318	.00315	127	192.5	.00519
28	.873	.001145	78	313	.00319	128	191.0	.00524
29	.843	.001186	79	309	.00323	129	189.5	.00528
30	.815	.001227	80	306	.00327	130	188.1	.00532
31	.789	.001268	81	302	.00331	131	186.6	.00536
32	.764	.001309	82	298	.00335	132	185.2	.00540
33	.741	.001350	83	295	.00339	133	183.8	.00544
34	.719	.001391	84	291	.00344	134	182.5	.00548
35	.699	.001432	85	288	.00348	135	181.1	.00552
36	.679	.001472	86	284	.00352	136	179.8	.00556
37	.661	.001513	87	281	.00356	137	178.5	.00560
38	.643	.001554	88	278	.00360	138	177.2	.00564
39	.627	.001595	89	275	.00364	139	175.9	.00569
40	.611	.001636	90	272	.00368	140	174.6	.00573
41	.596	.001677	91	269	.00372	141	173.4	.00577
42	.582	.001718	92	266	.00376	142	172.2	.00581
43	.569	.001759	93	263	.00380	143	171.0	.00585
44	.556	.001800	94	260	.00384	144	169.8	.00589
45	.543	.001840	95	257	.00389	145	168.6	.00593
46	.532	.001881	96	255	.00393	146	167.5	.00597
47	.520	.001922	97	252	.00397	147	166.3	.00601
48	.509	.001963	98	249.5	.00401	148	165.2	.00605
49	.499	.002004	99	247.0	.00405	149	164.1	.00609
50	.489	.002045	100	244.5	.00409	150	163.0	.00613

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151	161.9	0.00618	201	121.6	0.00822	251	97.4	0.01027
152	160.9	.00622	202	121.0	.00826	252	97.0	.01031
153	159.8	.00626	203	120.4	.00830	253	96.6	.01035
154	158.8	.00630	204	119.9	.00834	254	96.3	.01039
155	157.7	.00634	205	119.3	.00838	255	95.9	.01043
156	156.7	.00638	206	118.7	.00843	256	95.5	.01047
157	155.7	.00642	207	118.1	.00847	257	95.1	.01051
158	154.7	.00646	208	117.5	.00851	258	94.8	.01055
159	153.7	.00650	209	117.0	.00855	259	94.4	.01059
160	152.8	.00654	210	116.4	.00859	260	94.0	.01063
161	151.9	.00658	211	115.9	.00863	261	93.7	.01067
162	150.9	.00663	212	115.3	.00867	262	93.3	.01072
163	150.0	.00667	213	114.3	.00871	263	93.0	.01076
164	149.1	.00671	214	114.3	.00875	264	92.6	.01080
165	148.2	.00675	215	113.7	.00879	265	92.3	.01084
166	147.3	.00679	216	113.2	.00883	266	91.9	.01088
167	146.4	.00683	217	112.7	.00888	267	91.6	.01092
168	145.5	.00687	218	112.2	.00892	268	91.2	.01096
169	144.7	.00691	219	111.6	.00896	269	90.9	.01100
170	143.8	.00695	220	111.1	.00900	270	90.6	.01104
171	143.0	.00699	221	110.6	.00904	271	90.2	.01108
172	142.2	.00703	222	110.1	.00908	272	89.9	.01112
173	141.3	.00708	223	109.6	.00912	273	89.6	.01117
174	140.5	.00712	224	109.2	.00916	274	89.2	.01121
175	139.7	.00716	225	108.7	.00920	275	88.9	.01125
176	138.9	.00720	226	108.2	.00924	276	88.6	.01129
177	138.1	.00724	227	107.7	.00928	277	88.3	.01133
178	137.4	.00728	228	107.2	.00933	278	87.9	.01137
179	136.6	.00732	229	106.8	.00937	279	87.6	.01141
180	135.8	.00736	230	106.3	.00941	280	87.3	.01145
181	135.1	.00740	231	105.8	.00945	281	87.0	.01149
182	134.3	.00744	232	105.4	.00949	282	86.7	.01153
183	133.6	.00748	233	104.9	.00953	283	86.4	.01157
184	132.9	.00753	234	104.5	.00957	284	86.1	.01162
185	132.2	.00757	235	104.0	.00961	285	85.8	.01166
186	131.5	.00761	236	103.6	.00965	286	85.5	.01170
187	130.7	.00765	237	103.2	.00969	287	85.2	.01174
188	130.1	.00769	238	102.7	.00973	288	84.9	.01178
189	129.4	.00773	239	102.3	.00978	289	84.6	.01182
190	128.7	.00777	240	101.9	.00982	290	84.3	.01186
191	128.0	.00781	241	101.5	.00986	291	84.0	.01190
192	127.3	.00785	242	101.0	.00990	292	83.7	.01194
193	126.7	.00789	243	100.6	.00994	293	83.4	.01198
194	126.0	.00793	244	100.2	.00998	294	83.2	.01202
195	125.4	.00798	245	99.8	.01002	295	82.9	.01207
196	124.7	.00802	246	99.4	.01006	296	82.6	.01211
197	124.1	.00806	247	99.0	.01010	297	82.3	.01215
198	123.5	.00810	248	98.6	.01014	298	82.0	.01219
199	122.9	.00814	249	98.2	.01018	299	81.8	.01223
200	122.3	.00818	250	97.8	.01022	300	81.5	.01227

* A. C. Fieldner, S. H. Katz, and S. P. Kinney, "Gas Masks for Gases Met in Fighting Fires," U. S. Bur. Mines, Tech. Paper No. 248 (1921).