

	CO2	N2	
a =	3.592	1.39	L ² atm/mol ²
b =	0.04267	0.0391	L/mol
R =	0.08206	0.08206	L atm/mol K
n =	1	1	mole
T =	273	273	K

	CO2			N2		
Va	Vc	Pa	Z	Vc	Pa	Z
22.4	22.357	0.99	0.9948	22.361	1.00	0.9990
22	21.957	1.01	0.9947	21.961	1.02	0.9990
20	19.957	1.11	0.9941	19.961	1.12	0.9989
18	17.957	1.24	0.9935	17.961	1.24	0.9987
16	15.957	1.39	0.9927	15.961	1.40	0.9986
14	13.957	1.59	0.9916	13.961	1.60	0.9984
12	11.957	1.85	0.9902	11.961	1.86	0.9981
10	9.957	2.21	0.9883	9.961	2.24	0.9977
8	7.957	2.76	0.9853	7.961	2.79	0.9972
6	5.957	3.66	0.9804	5.961	3.72	0.9962
4	3.957	5.44	0.9707	3.961	5.57	0.9944
2	1.957	10.55	0.9416	1.961	11.08	0.9889
1	0.957	19.81	0.8842	0.961	21.92	0.9786
0.9	0.857	21.70	0.8716	0.861	24.31	0.9765
0.8	0.757	23.97	0.8559	0.761	27.27	0.9738
0.7	0.657	26.75	0.8359	0.661	31.06	0.9705
0.6	0.557	30.22	0.8093	0.561	36.08	0.9663
0.5	0.457	34.62	0.7726	0.461	43.05	0.9607
0.4	0.357	40.24	0.7186	0.361	53.39	0.9532
0.3	0.257	47.15	0.6314	0.261	70.42	0.9430
0.2	0.157	52.59	0.4695	0.161	104.5	0.9328
0.1	0.057	31.56	0.1409	0.061	228.9	1.0216
0.09	0.047	29.87	0.1200	0.051	268.5	1.0788
0.08	0.037	38.87	0.1388	0.041	330.5	1.1804
0.07	0.027	86.64	0.2707	0.031	441.3	1.3790
0.06	0.017	294.92	0.7899	0.021	685.8	1.8367
0.05	0.007	1619.46	3.61	0.011	1499.3	3.3462
0.045	0.002	7840.93	15.75	0.006	3110.6	6.2483

CO2		N2	
P (atm)	Z	P (atm)	Z
0.99	0.9948	1.00	0.9990
1.01	0.9947	1.02	0.9990
1.11	0.9941	1.12	0.9989
1.24	0.9935	1.24	0.9987
1.39	0.9927	1.40	0.9986
1.59	0.9916	1.60	0.9984
1.85	0.9902	1.86	0.9981
2.21	0.9883	2.24	0.9977
2.76	0.9853	2.79	0.9972
3.66	0.9804	3.72	0.9962
5.44	0.9707	5.57	0.9944
10.55	0.9416	11.08	0.9889
19.81	0.8842	21.92	0.9786
21.70	0.8716	24.31	0.9765
23.97	0.8559	27.27	0.9738
26.75	0.8359	31.06	0.9705
30.22	0.8093	36.08	0.9663
34.62	0.7726	43.05	0.9607
40.24	0.7186	53.39	0.9532
47.15	0.6314	70.42	0.9430
52.59	0.4695	104.5	0.9328
31.56	0.1409	228.9	1.0216
29.87	0.1200	268.5	1.0788
38.87	0.1388	330.5	1.1804
86.64	0.2707	441.3	1.3790
294.9	0.7899	685.8	1.8367
1619.5	3.61	1499.3	3.3462
7840.9	15.75	3110.6	6.2483

