TABLE I. Calculated pressure at given compressions and temperatures from 0–500 kbar and 0°C–mp for NaCl. Based on equation of state by Decker.[a]

$\frac{\Delta a}{a_0}$	0 C	25 C	100 C	200 C	300 C	400 C	500 C	600 C	700 C	800 C	900 C	1000 C	1200 C	1400 C	1600 C	1800 C	2000 C
0.040										0.45							
0.038										1.25	4.03						
0.036										2.09	4.87						
0.034									0.15	2.94	5.74						
0.032									1.03	3.83	6.63						
0.030									1.94	4.75	7.55	10.36					
0.028								0.07	2.88	5.69	8.51	11.32					
0.026								1.03	3.85	6.67	9.49	12.31					
0.024								2.02	4.83	7.67	10.50	13.33					
0.022							0.21	3.04	5.87	8.71	11.55	14.39					
0.020							1.25	4.10	6.93	9.78	12.62	15.47					
0.018							2.33	5.18	8.03	10.88	13.74	16.59					
0.016						0.60	3.45	6.30	9.16	12.02	14.88	17.74	23.47				
0.014						1.74	4.56	7.46	10.32	13.19	16.06	18.93	24.67				
0.012					0.06	2.92	5.78	8.65	11.52	14.40	17.28	20.15	25.91				
0.010					1.26	4.13	7.00	9.86	12.76	15.64	18.53	21.41	27.19				
0.008					2.50	5.38	8.26	11.15	14.03	16.93	19.82	22.71	28.50				
0.006				0.92	3.79	6.67	9.56	12.45	15.35	18.25	21.15	24.05	29.86				
0.004				2.24	5.11	8.00	10.90	13.80	16.70	19.61	22.52	25.43	31.25				
0.002			0.73	3.59	6.47	9.37	12.27	15.18	18.09	21.01	23.92	26.84	32.68				
0.000		0.00	2.12	4.99	7.88	10.78	13.69	16.01	19.53	22.45	25.38	28.03	34.16	40.02			
-0.002	0.74	1.43	3.56	6.43	9.33	12.24	15.16	18.08	21.01	23.94	26.87	29.80	35.68	41.56			
-0.004	2.21	2.91	5.03	7.91	10.82	13.74	16.66	19.59	22.53	25.47	28.41	31.34	37.24	43.13			
-0.006	3.72	4.42	6.56	9.44	12.35	15.28	18.21	21.15	24.10	27.04	29.99	32.94	38.84	44.75			
-0.008	5.28	5.99	8.12	11.02	13.93	16.87	19.81	22.76	25.71	28.66	31.62	34.58	40.50	46.42			
-0.010	6.89	7.60	9.74	12.64	15.56	18.50	21.45	24.41	27.37	30.33	33.30	36.26	42.20	48.14			
-0.012	8.55	9.26	11.40	14.38	17.24	20.19	23.15	26.11	29.01	32.05	35.02	37.99	43.95	49.90			
-0.014	10.26	10.97	13.12	16.03	18.97	21.92	24.89	27.86	30.84	33.81	36.80	39.78	45.75	51.72			
-0.016	12.02	12.73	14.88	17.80	20.75	23.71	26.68	29.66	32.65	35.63	38.62	41.62	47.60	53.59			
-0.018	13.83	14.54	16.70	19.62	22.58	25.55	28.53	31.51	34.51	37.50	40.50	43.50	49.50	55.51	61.52		
-0.020	15.69	16.40	18.56	21.50	24.46	27.44	30.43	33.42	36.42	39.43	42.39	45.45	51.46	57.48	63.51		
-0.022	17.61	18.32	20.49	23.43	26.40	29.39	32.38	35.38	38.39	41.40	44.43	47.44	53.48	59.51	65.55		
-0.024	19.59	20.30	22.47	25.42	28.40	31.39	34.39	37.40	40.42	43.44	46.46	49.49	55.54	61.59	67.65		
-0.026	21.62	22.33	24.51	27.46	30.45	33.45	36.46	39.48	42.50	45.53	48.57	51.60	57.67	63.74	69.81		
-0.028	23.71	24.43	26.61	29.57	32.56	35.57	38.59	41.62	44.65	47.68	50.71	53.77	59.86	65.94	72.03		
-0.030	25.87	26.58	28.77	31.73	34.73	37.75	40.78	43.81	46.85	49.90	52.95	55.00	62.10	68.20	74.31		
-0.032	28.08	28.80	30.00	33.66	36.97	39.99	43.03	46.07	49.12	52.17	55.24	58.29	64.41	70.53	76.65		
-0.034	30.36	31.08	33.27	36.25	39.26	42.30	45.34	48.39	51.45	54.51	57.48	60.66	66.78	72.92	79.06	85.20	
-0.036	32.71	33.43	35.62	38.61	41.63	44.67	47.72	50.78	53.85	56.91	60.00	63.08	69.22	75.37	81.53	87.69	
-0.038	35.12	35.84	38.04	41.03	44.06	47.11	50.17	53.23	56.31	59.39	62.48	65.56	71.74	77.89	84.07	90.25	
-0.040	37.60	38.32	40.53	43.52	46.56	49.61	52.68	55.76	58.84	61.93	64.99	68.11	74.30	80.48	86.68	92.88	
-0.042	40.15	40.87	43.08	46.09	49.13	52.19	55.27	58.35	61.44	64.54	67.65	70.74	76.95	83.15	89.36	95.57	101.79
-0.044	42.78	43.50	45.71	48.72	51.77	54.84	57.93	61.02	64.12	67.22	70.33	72.67	79.61	85.88	92.11	98.34	104.58
-0.046	45.47	46.20	48.41	51.43	54.49	57.57	60.66	63.76	66.86	69.96	73.10	76.21	82.45	88.69	94.94	101.19	107.44
-0.048	48.25	48.97	51.19	54.22	57.28	60.37	63.47	66.57	69.69	72.81	75.94	79.08	85.32	91.57	97.84	104.11	110.37
-0.050	51.10	51.82	54.05	57.08	60.15	63.24	66.35	69.47	72.59	75.72	78.86	82.01	88.26	94.54	100.82	107.10	113.39
-0.052	54.03	54.78	56.98	60.02	63.10	66.20	69.32	72.44	75.57	78.71	81.86	85.00	91.29	97.58	103.88	110.18	116.49
-0.054	57.04	57.80	60.00	63.05	66.13	69.24	72.36	75.50	78.64	81.78	84.94	88.09	94.35	100.70	107.02	113.34	119.66
-0.056	60.14	60.87	63.10	66.15	69.25	72.36	75.50	78.64	81.79	84.94	88.11	91.27	97.59	103.91	110.25	116.59	122.92
-0.058	63.32	64.05	66.29	69.35	72.45	75.57	78.71	81.86	85.02	88.18	91.36	94.54	100.87	107.27	113.56	119.92	126.27
-0.060	66.59	67.32	69.57	72.63	75.74	78.87	82.02	85.17	88.34	91.51	94.70	97.88	104.24	110.59	116.96	123.33	129.71
-0.062	69.95	70.68	72.93	76.00	79.12	82.26	85.41	88.58	91.75	94.91	98.13	101.31	107.69	114.06	120.45	126.84	133.24
-0.064	73.41	74.14	76.39	79.47	82.59	85.74	88.90	92.08	95.26	98.44	101.66	104.84	111.24	117.63	124.04	130.45	136.86
-0.066	76.96	77.69	79.94	83.03	86.15	89.31	92.48	95.67	98.86	102.05	105.27	108.47	114.88	121.29	127.72	134.14	140.57
-0.068	80.60	81.34	83.59	86.68	89.82	92.98	96.16	99.35	102.55	105.76	108.98	112.19	118.62	125.05	131.49	137.94	144.38
-0.070	84.35	85.08	87.34	90.44	93.58	96.75	99.94	103.14	106.35	109.56	112.79	116.07	122.47	128.91	135.37	141.83	148.30
-0.072	88.20	88.93	91.20	94.30	97.45	100.63	103.82	107.03	110.25	113.47	116.71	119.93	126.41	132.87	139.35	145.83	152.31
-0.074	92.15	92.88	95.15	98.26	101.43	104.61	107.81	111.03	114.25	117.48	120.73	123.97	130.46	136.93	143.43	149.93	156.43
-0.076	96.21	96.95	99.22	102.33	105.50	108.69	111.90	115.13	118.36	121.60	124.86	128.11	134.61	141.11	147.62	154.14	160.66
-0.078	100.38	101.12	103.39	106.51	109.68	112.89	116.11	119.34	122.58	125.83	129.08	132.36	138.88	145.39	151.92	158.46	165.00
-0.080	104.66	105.40	107.68	110.80	113.98	117.19	120.42	123.67	126.92	130.17	133.45	136.72	143.26	149.79	156.34	162.89	169.45
-0.082	109.06	109.90	112.08	115.21	118.40	121.62	124.86	128.11	131.37	134.63	137.90	141.19	147.75	154.30	160.87	167.44	174.02
-0.084	113.58	114.32	116.60	119.74	122.93	126.16	129.41	132.67	135.93	139.21	142.50	145.79	152.36	158.93	165.52	172.11	178.70
-0.086	118.22	118.96	121.24	124.39	127.58	130.82	133.99	137.35	140.62	143.91	147.19	150.50	157.10	163.68	170.29	176.90	183.51
-0.088	122.98	123.72	126.01	129.16	132.37	135.61	138.89	142.15	145.44	148.73	152.04	155.14	161.95	168.56	175.18	181.81	188.44
-0.090	127.87	128.61	130.91	134.06	137.28	140.52	143.61	147.08	150.38	153.68	156.98	160.31	166.94	173.56	180.20	186.85	193.50
-0.092	132.89	133.63	135.93	139.09	142.32	145.57	148.86	152.14	155.45	158.76	162.09	165.40	172.06	178.70	185.36	192.02	198.69
-0.094	138.05	138.79	141.09	144.26	147.49	150.75	154.05	157.34	160.65	163.97	167.29	170.64	177.31	183.97	190.64	197.33	204.02
-0.096	143.34	144.08	146.39	149.56	152.81	156.06	159.88	162.67	166.00	169.32	172.67	176.01	182.75	189.37	196.07	202.77	209.48
-0.098	148.78	149.52	151.82	155.00	158.74	161.52	164.35	168.15	171.48	174.82	178.15	181.52	188.23	194.94	201.66	208.38	215.10
-0.100	154.35	155.10	157.41	160.59	163.36	167.12	170.46	173.77	177.11	180.45	183.82	187.18	193.90	200.63	207.36	214.11	220.90
-0.105	168.95	169.70	172.01	175.70	178.48	181.80	185.12	188.49	191.84	195.19	198.57	201.95	208.72	215.49	222.27	229.07	235.86
-0.110	184.53	185.28	187.62	190.81	194.12	197.43	200.80	204.15	207.53	210.92	214.34	217.74	224.56	231.38	238.21	245.04	251.89
-0.115	201.78	202.47	204.24	208.02	210.77	214.13	217.48	220.90	224.30	227.69	231.12	234.54	241.40	248.27	255.15	262.03	268.92
-0.120	218.90	219.65	222.01	225.22	228.57	231.91	235.33	238.72	242.14	245.50	249.11	252.25	259.44	266.32	273.25	280.17	287.11
-0.125	238.50	239.21	240.91	244.79	247.50	250.91	254.30	257.76	261.21	264.64	268.18	267.75	278.53	285.50	292.48	299.46	306.44
-0.130	258.01	258.76	261.12	264.36	267.84	271.12	274.68	278.01	281.48	284.98	288.45	292.02	299.00	305.99	313.01	320.04	327.08
-0.135	280.24	281.02	282.62	286.61	289.27	292.71	296.14	299.66	303.15	306.61	312.71	313.64	320.81	327.76	334.83	341.91	348.99
-0.140	302.46	303.21	305.59	308.85	312.27	315.68	319.18	322.65	326.16	329.72	333.34	336.86	343.95	351.01	358.13	365.26	371.39
-0.145	327.72	328.46	330.01	334.11	336.71	340.20	343.67	347.23	350.76	354.27	352.91	356.43	368.54	375.71	382.88	390.05	397.24
-0.150	352.97	353.71	356.10	359.38	362.83	366.27	369.83	373.33	376.89	380.50	384.04	378.24	394.93	402.07	409.29	412.91	423.75
-0.155	381.64	382.39	383.84	388.07	390.59	394.16	397.62	401.22	404.80	408.36	412.09	415.57	422.96	430.08	437.35	444.62	451.91
-0.160	410.31	411.06	413.46	416.75	420.23	423.71	427.40	430.85	434.45	438.26	441.85	445.45	452.74	459.97	467.29	474.62	482.05
-0.165	442.88	443.60	444.93	449.30	451.73	455.30	458.83	462.98	466.11	469.71	473.48	477.18	484.36	491.71	499.09		
-0.170	475.39	476.13	478.53	481.84	485.36	488.86	492.50	496.08	499.73	503.44							

[a] See Ref. 1.

and Drickamer, and the results calculated in Ref. 1 and tabulated in Table I.

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[1] D. L. Decker, J. Appl. Phys. **36**, 157 (1965).
[2] O. L. Anderson, Proc. Natl. Acad. Sci. U. S. **54**, 667 (1965); J. Phys. Chem. Solids **27**, 547 (1966).
[3] E. A. Perez-Albuerne and H. G. Drickamer, J. Chem. Phys. **43**, 1381 (1965).
[4] P. W. Bridgman, Proc. Am. Acad. Arts Sci. **76**, 9 (1945).
[5] R. H. Christian, Report UCRL-4900, University of California, Lawrence Radiation Laboratory, 1957.
[6] R. N. Jeffrey, J. D. Barnett, H. B. Vanfleet, and H. T. Hall, J. Appl. Phys. **37**, 3172 (1966).
[7] G. C. Kennedy and P. N. LaMori, J. Geophys. Research **67**, 851 (1962).
[8] R. A. Bartels and D. E. Schuele, J. Phys. Chem. Solids **26**, 537 (1965)