

TABLE 3A
Solubility of albite in supercritical water

Run No.	T (°C)	P (k bars)	SiO ₂ ppm	Al ₂ O ₃ ppm	Na ppm	K ppm	pH	Run No.	T (°C)	P (k bars)	SiO ₂ ppm	Al ₂ O ₃ ppm	Na ppm	K ppm	pH
A-14	400	0.75	369	90	79	0.3	9.79	A-43	550	0.75	272	27	23	1.8	9.46
15		1.00	490	127	89	0.5	9.84	44		1.00	505	87	67	2.2	9.74
16		1.25	651	160	112	0.7	9.94	45		1.25	795	160	102	2.6	9.93
17		1.50	778	185	140	1.1	10.05	46		1.50	1150	243	148	2.9	10.06
18		1.75	880	215	152	1.5	10.07	47		1.75	1403	310	178	3.7	10.13
19		2.00	1017	230	170	1.6	10.12	48		2.00	1760	410	214	4.2	10.22
26		2.50	1223	279	218	2.0	10.23	49		2.25	2080	479	263	4.9	10.31
27		3.00	1407	304	231	2.2	10.25	50		2.50	2415	532	310	5.1	10.35
28		3.50	1805	324	280	3.1	10.36	51		2.75	2790	587	355	5.3	10.46
A-20	450	0.75	375	103	62	0.5	9.75	A-58	600	0.75	291	11	15	3.4	9.07
21		1.00	572	155	94	0.8	9.85	42		1.00	550	36	40	3.6	9.50
22		1.25	778	207	125	1.2	9.98	59		1.25	827	85	77	4.1	9.79
23		1.50	945	256	150	1.5	10.06	69		1.50	1140	159	134	5.0	10.00
24		1.75	1135	301	177	1.7	10.13	61		1.75	1590	217	165	5.3	10.08
25		2.00	1300	328	200	1.8	10.20	40		2.00	2065	281	230	5.3	10.25
29		2.50	1617	440	241	2.4	10.27	63		2.25	2401	357	286	5.9	10.37
30		3.00	1967	515	290	2.6	10.38	64		2.50	2760	400	319	6.6	10.40
31		3.50	2440	606	346	2.9	10.43								
A-32	500	0.75	310	53	33	1.0	9.49	A-70	500	2.00	1541	418	215	4.8	10.23
33		1.00	574	126	76	1.2	9.78	71	500	2.00	1550	406	231	5.1	10.27
34		1.25	821	210	111	1.7	9.94	72	500	2.00	1565	412	216	6.1	10.26
38		1.50	1110	259	157	1.8	10.07	73	500	2.00	1557	399	233	5.3	10.24
39		1.75	1260	313	189	3.8	10.16	41	600	1.00	518	37	36	2.9	9.52
40		2.00	1605	397	230	6.5	10.25	66	400	1.00	481	124	89	0.6	9.81
54		2.75	2393	545	325	6.9	10.38	67	400	1.50	727	183	124	1.0	10.00
55		3.00	2550	600	346	7.3	10.43	68	400	2.00	993	216	161	1.4	10.09
56		3.50	3201	738	545	7.6	10.63	*	500	1.00	544	135	88		
								*	500	2.00	1591	436	221		

* Results of Morey and Hesselgesser, 1951.

TABLE 3B
Solubility of albite in supercritical water under non-equilibrium conditions

Run No.	T (°C)	P (k bars)	SiO ₂ ppm	Al ₂ O ₃ ppm	Na ppm	K ppm	pH	Drip rate** (ml/hour)
A-35	500	1.50	2820	93	51	—	8.1	200
36	500	1.50	2076	141	83	0.8	8.3	120
37	600	2.00	4236	97	99	1.1	8.4	130
52	500	2.25	4007	151	149	1.4	8.3	160
53	500	2.50	6900	27	17	—	7.6	170
57	600	0.75	467	17	13	—	7.1	250
60	500	1.50	1567	186	137	1.5	8.9	95
62	600	2.00	4675	197	176	3.6	9.0	110
65	600	2.00	2576	251	209	5.3	9.6	80
69	400	2.50	2011	229	190	—	8.8	220

** Estimated from volume of solution collected divided by length of run.