AM-93-517

Dehydration mechanism of clinoptilolite and heulandite: Single-crystal X-ray study of Na-poor, Ca-, K-, Mg-rich clinoptilolite at 100 K

Thomas Armbruster

For deposit: Tables 2,3,4, and 5

American Mineralogist, 78, 3-4, 260-264.

Armbruster, Th.

Dehydration of clinoptilolite and heulandite: Single-crystal X-ray study of a Na-poor, Ca,K,Mg-rich clinoptilolite at 100 K.

Table 2 for deposit (26 pages)

Observed and calculated structure factors (100 K) for natural, dehyd1, dehyd2, and dehyd3 clinoptilolite from Weitendorf, Styria (Austria).

OBS. AND CALC. STRUCTURE FACTORS FOR NATURAL CLINOPTILOLITE FROM WEITENDORF

H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC
2	0	0	129	-140	11	5	0	57	56	0	12	0	154	157	-4	0	1	112	115	-3	3	1	18	17
4	0	0	227	222	13	5	0	47	-50	2	12	0	100	-100	-2	0	1	93	103	-1	3	1	142	-141
6	0	0	28	-27	15	5	0	29	28	4	12	0	15	17	0	0	1	78	-81	1	3	1	238	-247
8	0	0	49	-55	17	5	0	55	-55	6	12	0	47	48	4	0	1	111	-112	3	3	1	61	59
10	0	0	174	171	0	6	0	119	117	8	12	0	58	-59	6	0	1	31	30	5	3	1	33	-33
12	0	0	23	-23	2	6	0	18	12	10	12	0	51	51	8	0	1	94	-97	7	3	1	20	19
14	0	0	126	123	4	6	0	81	-80	14	12	0	20	-20	10	0	1	50	49	9	3	1	106	103
16	0	0	63	62	6	6	0	79	80	1	13	0	38	37	12	0	1	151	148	11	3	1	113	-116
18	0	0	59	58	8	6	0	149	-147	3	13	0	18	16	14	0	1	110	-108	13	3	1	49	47
1	1	0	14	-15	12	6	0	57	57	5	13	0	132	-133	16	0	1	61	60	15	3	1	57	-56
3	1	0	61	-58	14	6	0	76	-76	7	13	0	69	71	-19	1	1	22	21	17	3	1	61	-63
5	1	0	35	37	16	6	0	59	61	9	13	0	92	-92	-17	1	1	20	16	-18	4	1	26	25
7	1	0	36	41	1	7	0	74	80	11	13	0	42	44	-15	1	1	27	26	-16	4	1	27	-26
9	1	0	26	-25	3	7	0	37	-36	2	14	0	102	103	-13	1	1	30	29	-14	4	1	52	51
11	1	0	57	54	5	7	0	23	-22	8	14	0	34	35	-7	1	1	66	-62	-12	4	1	43	-45
13	1	0	19	20	7	7	0	125	-127	10	14	0	15	-14	-5	1	1	102	99	-10	4	1	34	34
15	1	0	30	-30	9	7	0	77	-83	1	15	0	72	-71	-3	1	1	109	-112	-8	4	1	125	123
17	1	0	28	27	11	7	0	19	17	3	15	0	21	22	-1	1	1	20	18	-6	4	1	108	108
0	2	0	178	-197	13	7	0	61	60	5	15	0	61	63	1	1	1	116	122	-4	4	1	192	190
2	2	0	44	-47	0	8	0	81	70	7	15	0	24	22	3	1	1	65	-66	-2	4	1	74	-74
4	2	0	17	-16	2	8	0	45	-41	9	15	0	95	94	5	1	1	64	67	0	4	1	51	50
6	2	0	94	-95	4	8	0	27	25	11	15	0	26	-25	7	1	1	29	-30	2	4	1	26	-26
8	2	0	43	40	6	8	0	20	-15	0	16	0	33	33	11	1	1	61	56	4	4	1	164	160
10	2	0	83	-86	8	8	0	183	185	2	16	0	32	-31	13	1	1	49	-48	6	4	1	116	-119
12	2	0	27	-29	10	8	0	31	-36	6	16	0	35	-35	15	1	1	28	28	8	4	1	98	94
14	2	0	58	-57	12	8	0	16	-20	10	16	0	27	-26	-18	2	1	63	-61	10	4	1	24	24
16	2	0	78	-77	14	8	0	39	-40	12	16	0	52	-53	-16	2	1	23	20	12	4	1	28	-26
18	2	0	32	-31	16	8	0	18	-19	1	17	0	35	34	-14	2	1	37	-39	14	4	1	41	40
1	3	0	29	-28	1	9	0	63	-61	3	17	0	67	-68	-12	2	1	16	-18	16	4	1	43	-42
3	3	0	217	227	3	9	0	98	99	7	17	0	74	-74	-10	2	1	76	-73	-19	5	1	24	-23
5	3	0	243	-239	5	9	0	62	-62	11	17	0	26	-25	-8	2	1	17	-16	-17	5	1	72	73
7	3	0	108	105	7	9	0	97	98	0	18	0	18	16	-6	2	1	143	-142	-13	5	1	131	134
9	3	0	12	-13	9	9	0	95	90	2	18	0	39	38	-4	2	1	146	-148	-11	5	1	78	84
11	3	0	73	-76	11	9	0	52	-57	6	18	0	68	66	-2	2	1	13	19	-9	5	1	98	-94
13	3	0	51	51	13	9	0	65	64	8	18	0	56	53	0	2	1	43	-44	-7	5	1	38	-35
15	3	0	31	31	0	10	0	193	201	1	19	0	26	26	2	2	1	81	85	-5	5	1	99	-106
17	3	0	17	16	2	10	0	21	-21	7	19	0	28	28	4	2	1	59	-58	-3	5	1	138	143
0	4	0	31	28	4	10	0	120	122	0	20	0	44	44	6	2	1	144	-155	1	5	1	244	247
2	4	0	182	184	6	10	0	78	-77	2	20	0	19	-17	10	2	1	129	-126	3	5	1	85	89
4	4	0	37	34	8	10	0	24	-21	4	20	0	27	25	12	2	1	51	-51	5	5	1	82	81
6	4	0	77	71	12	10	0	49	-48	6	20	0	47	-50	14	2	1	21	20	7	5	1	15	11
8	4	0	44	43	14	10	0	87	90	1	21	0	31	-33	-19	3	1	29	30	9	5	1	108	-112
14	4	0	47	50	1	11	0	19	-18	-18	0	1	32	33	-17	3	1	61	-62	11	5	1	111	109
16	4	0	26	25	3	11	0	48	-47	-16	0	1	29	-31	-13	3	1	105	-105	15	5	1	48	49
1	5	0	41	46	7	11	0	43	43	-14	0	1	74	-76	-11	3	1	31	-27	17	5	1	74	73
3	5	0	215	-210	9	11	0	25	-25	-12	0	1	150	152	-9	3	1	24	26	-18	6	1	35	35
5	5	0	13	12	11	11	0	43	44	-8	0	1	58	-50	-7	3	1	25	26	-16	6	1	70	-68
9	5	0	93	91	13	11	0	31	-30	-6	0	1	132	129	-5	3	1	30	29	-14	6	1	51	-50

H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC
-10	6	1	77	-75	-9	9	1	33	35	8	12	1	68	-68	-11	17	1	27	27	-5	1	2	86	-84
-8	6	1	10	3	-7	9	1	41	-41	10	12	1	54	-55	-9	17	1	67	-69	-3	1	2	149	146
-6	6	1	69	-60	-5	9	1	12	-13	12	12	1	17	16	-7	17	1	71	72	-1	1	2	57	57
-4	6	1	77	80	-1	9	1	90	-86	14	12	1	57	-63	-5	17	1	30	-28	1	1	2	157	-149
-2	6	1	164	-167	3	9	1	127	130	-13	13	1	42	-43	-1	17	1	34	-34	3	1	2	65	63
0	6	1	120	117	5	9	1	19	-19	-11	13	1	43	42	1	17	1	28	-29	5	1	2	52	-51
2	6	1	153	-159	7	9	1	19	18	-9	13	1	28	-28	7	17	1	23	26	7	1	2	109	111
4	6	1	117	-113	9	9	1	35	34	-7	13	1	24	-25	-8	18	1	52	-53	9	1	2	40	-37
6	6	1	42	36	11	9	1	35	-34	-5	13	1	125	125	-6	18	1	38	38	11	1	2	50	49
8	6	1	107	-110	13	9	1	30	30	-3	13	1	56	-55	-4	18	1	14	-15	15	1	2	19	-16
10	6	1	77	80	15	9	1	22	22	1	13	1	59	-58	0	18	1	101	101	-20	2	2	23	22
12	6	1	37	-36	-16	10	1	42	-42	3	13	1	36	-35	2	18	1	35	-34	-16	2	2	81	-83
14	6	1	32	-30	-14	10	1	49	-51	5	13	1	75	77	4	18	1	64	66	-14	2	2	27	28
-17	7	1	13	13	-10	10	1	69	-69	7	13	1	31	-31	6	18	1	35	-37	-12	2	2	148	-148
-13	7	1	90	-91	-8	10	1	163	165	9	13	1	95	95	8	18	1	32	-34	-10	2	2	49	51
-11	7	1	68	71	-4	10	1	53	55	13	13	1	40	40	-9	19	1	24	-21	-8	2	2	14	12
-9	7	1	79	-79	-2	10	1	31	31	-10	14	1	25	22	-7	19	1	20	-19	-6	2	2	31	-31
-7	7	1	76	73	0	10	1	153	-150	-8	14	1	57	57	-3	19	1	25	-23	-4	2	2	251	249
-5	7	1	38	-40	2	10	1	66	69	-6	14	1	13	6	-1	19	1	64	63	-2	2	2	222	-222
-3	7	1	71	-64	4	10	1	107	-104	-4	14	1	84	86	3	19	1	31	30	0	2	2	37	36
-1	7	1	35	35	6	10	1	28	29	-2	14	1	19	19	-4	20	1	32	32	2	2	2	99	-105
1	7	1	49	46	8	10	1	62	60	2	14	1	43	45	-2	20	1	31	-30	6	2	2	16	13
3	7	1	80	-74	12	10	1	44	45	4	14	1	18	18	0	20	1	43	-45	8	2	2	67	-69
5	7	1	77	-78	14	10	1	51	-53	8	14	1	49	51	2	20	1	13	-15	10	2	2	87	87
7	7	1	17	13	-15	11	1	24	-21	12	14	1	16	12	4	20	1	43	-41	14	2	2	42	40
9	7	1	25	25	-13	11	1	52	53	-13	15	1	15	19	-1	21	1	73	-76	16	2	2	43	-43
11	7	1	50	49	-11	11	1	35	-32	-11	15	1	25	-23	-20	0	2	69	-67	-17	3	2	49	-47
13	7	1	43	-43	-9	11	1	25	27	-9	15	1	15	17	-18	0	2	31	30	-15	3	2	62	64
15	7	1	45	-46	-7	11	1	93	-94	-5	15	1	106	-107	-16	0	2	53	52	-11	3	2	36	-35
-18	8	1	48	-47	-5	11	1	42	42	-3	15	1	57	56	-14	0	2	102	104	-9	3	2	67	69
-16	8	1	24	23	-3	11	1	60	-61	-1	15	1	78	-76	-12	0	2	106	106	-7	3	2	40	-45
-14	8	1	34	35	-1	11	1	26	25	1	15	1	100	101	-10	0	2	131	130	-5	3	2	62	-58
-10	8	1	55	55	1	11	1	31	28	3	15	1	50	48	-8	0	2	21	-21	-3	3	2	56	-56
-8	8	1	111	-110	3	11	1	69	-67	5	15	1	43	-43	-6	0	2	79	72	-1	3	2	163	-158
-6	8	1	34	32	5	11	1	81	82	7	15	1	33	32	-4	0	2	198	-201	1	3	2	109	118
-4	8	1	34	32	7	11	1	54	-54	9	15	1	36	-37	-2	0	2	129	128	3	3	2	68	66
-2	8	1	42	36	9	11	1	17	-14	11	15	1	37	-39	0	0	2	207	206	5	3	2	81	82
0	8	1	40	-35	13	11	1	52	-51	-12	16	1	46	-46	2	0	2	75	70	7	3	2	47	-45
2	8	1	20	16	-16	12	1	30	29	-10	16	1	29	-31	4	0	2	93	96	9	3	2	43	-40
4	8	1	140	138	-14	12	1	48	-50	-8	16	1	23	25	6	0	2	50	-52	11	3	2	84	-82
6	8	1	113	-115	-12	12	1	70	66	-6	16	1	58	-56	14	0	2	12	9	13	3	2	22	-23
10	8	1	90	-92	-10	12	1	50	-51	-4	16	1	60	60	16	0	2	42	42	15	3	2	13	-9
12	8	1	39	-36	-8	12	1	109	-111	-2	16	1	68	-67	-17	1	2	49	49	-20	4	2	33	31
14	8	1	67	69	-4	12	1	134	-136	0	16	1	47	-48	-15	1	2	38	-36	-18	4	2	24	-24
16	8	1	42	-39	0	12	1	84	85	2	16	1	45	-45	-13	1	2	43	-41	-16	4	2	71	72
-17	9	1	29	-29	2	12	1	14	-11	4	16	1	23	-21	-11	1	2	52	52	-14	4	2	57	-56
-15	9	1	59	57	4	12	1	15	-9	6	16	1	14	-12	-9	1	2	137	-136	-12	4	2	82	82
-11	9	1	37	-35	6	12	1	123	-128	8	16	1	28	-30	-7	1	2	96	109	-10	4	2	36	34

H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC
-8	4	2	99	101	5	7	2	58	58	-7	11	2	158	161	-12	16	2	39	37	14	0	3	56	54
-6	4	2	63	-59	7	7	2	124	-125	-5	11	2	135	-133	-10	16	2	43	-44	-19	1	3	24	22
-2	4	2	46	42	9	7	2	52	-51	-3	11	2	45	45	-8	16	2	18	18	-17	1	3	45	-48
0	4	2	67	-66	11	7	2	67	-66	-1	11	2	37	-36	-4	16	2	82	-82	-15	1	3	47	50
2	4	2	59	-50	13	7	2	36	-37	1	11	2	116	-123	-2	16	2	36	34	-13	1	3	29	31
4	4	2	14	14	-14	8	2	18	15	3	11	2	53	53	0	16	2	90	-89	-11	1	3	32	-33
6	4	2	44	44	-12	8	2	153	-156	5	11	2	94	-97	2	16	2	39	38	-9	1	3	17	15
8	4	2	30	30	-10	8	2	75	73	9	11	2	45	-46	6	16	2	39	-40	-7	1	3	38	41
10	4	2	83	-82	-8	8	2	18	18	11	11	2	23	23	8	16	2	27	28	-5	1	3	66	67
12	4	2	25	22	-6	8	2	62	63	13	11	2	32	-31	-7	17	2	42	-43	-3	1	3	52	45
-19	5	2	22	21	-4	8	2	76	85	-16	12	2	38	-37	-5	17	2	38	-37	1	1	3	87	84
-17	5	2	67	68	-2	8	2	79	-80	-14	12	2	21	-18	-3	17	2	56	-57	3	1	3	54	-52
-15	5	2	51	-50	0	8	2	23	-23	-12	12	2	18	-13	-1	17	2	66	67	5	1	3	104	104
-13	5	2	15	-9	2	8	2	67	-70	-8	12	2	18	-16	5	17	2	68	70	7	1	3	90	-90
-11	5	2	40	-38	4	8	2	91	-90	-4	12	2	49	51	7	17	2	57	-55	9	1	3	84	85
-9	5	2	25	-26	8	8	2	16	12	-2	12	2	16	15	-8	18	2	31	31	11	1	3	49	-50
-7	5	2	115	117	10	8	2	28	27	0	12	2	66	65	-6	18	2	51	50	-20	2	3	48	-50
-5	5	2	12	-9	12	8	2	26	24	2	12	2	162	-164	-4	18	2	50	49	-18	2	3	27	-28
-3	5	2	64	66	-15	9	2	42	40	6	12	2	24	-21	-2	18	2	41	40	-14	2	3	16	-16
-1	5	2	102	107	-13	9	2	52	-53	8	12	2	43	-44	0	18	2	22	24	-12	2	3	60	61
3	5	2	24	-23	-11	9	2	34	30	10	12	2	77	78	2	18	2	54	-54	-10	2	3	49	50
5	5	2	20	18	-9	9	2	79	79	-15	13	2	38	38	4	18	2	16	-13	-8	2	3	85	81
7	5	2	38	-38	-7	9	2	53	51	-13	13	2	24	24	6	18	2	31	31	-6	2	3	103	-110
9	5	2	127	129	-5	9	2	25	24	-9	13	2	16	18	-5	19	2	31	32	-4	2	3	82	-86
11	5	2	30	29	-3	9	2	123	122	-7	13	2	22	-20	-3	19	2	15	14	-2	2	3	73	-75
13	5	2	61	60	-1	9	2	37	39	-5	13	2	40	-39	1	19	2	38	36	0	2	3	25	21
15	5	2	20	-22	1	9	2	37	39	-3	13	2	29	30	3	19	2	17	-13	2	2	3	61	59
-16	6	2	39	37	3	9	2	91	90	-1	13	2	15	13	5	19	2	23	23	4	2	3	16	-18
-14	6	2	40	-37	5	9	2	26	22	1	13	2	107	108	-6	20	2	45	-48	6	2	3	82	84
-12	6	2	147	148	7	9	2	131	133	5	13	2	76	76	-2	20	2	18	-17	10	2	3	82	-82
-10	6	2	84	-87	11	9	2	14	14	-14	14	2	54	54	0	20	2	22	-22	14	2	3	39	-40
-8	6	2	45	47	13	9	2	46	45	-10	14	2	70	68	2	20	2	37	38	-17	3	3	14	14
-6	6	2	20	25	-14	10	2	56	56	-8	14	2	41	44	-20	0	3	72	76	-15	3	3	64	-65
-4	6	2	79	70	-12	10	2	45	46	-6	14	2	65	-63	-16	0	3	75	73	-13	3	3	119	-120
-2	6	2	47	48	-10	10	2	75	74	-4	14	2	113	117	-14	0	3	73	-78	-11	3	3	60	-61
4	6	2	42	42	-8	10	2	25	25	-2	14	2	85	-85	-12	0	3	86	87	-9	3	3	20	-20
8	6	2	14	-11	-6	10	2	21	-20	0	14	2	75	75	-10	0	3	197	-192	-7	3	3	35	-32
10	6	2	20	21	-2	10	2	14	-14	2	14	2	25	21	-8	0	3	12	10	-5	3	3	17	-16
12	6	2	52	51	0	10	2	32	32	6	14	2	26	26	-6	0	3	68	-61	-3	3	3	13	16
14	6	2	44	-47	2	10	2	61	61	-13	15	2	53	-51	-4	0	3	34	-36	-1	3	3	53	-56
-17	7	2	52	-52	4	10	2	106	108	-11	15	2	30	-31	-2	0	3	149	158	1	3	3	15	20
-13	7	2	33	32	6	10	2	20	19	-9	15	2	21	22	0	0	3	84	-79	3	3	3	120	-120
-9	7	2	14	-16	8	10	2	16	-17	-5	15	2	54	54	2	0	3	67	-70	5	3	3	102	-103
-7	7	2	201	-208	10	10	2	26	-24	-3	15	2	60	59	4	0	3	50	-51	7	3	3	66	67
-5	7	2	54	-56	-17	11	2	48	48	-1	15	2	43	-41	6	0	3	97	-98	9	3	3	131	-130
-3	7	2	91	-90	-15	11	2	63	-60	1	15	2	52	-54	8	0	3	28	25	11	3	3	26	27
-1	7	2	11	7	-13	11	2	34	-33	5	15	2	28	-27	10	0	3	77	74	-14	4	3	43	45
3	7	2	23	-23	-9	11	2	199	-200	7	15	2	20	22	12	0	3	19	22	-12	4	3	51	-51

H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC
-8	4	3	64	-60	9	7	3	53	-52	-12	12	3	84	83	-9	17	3	69	-69	-12	2	4	39	-40
-6	4	3	129	125	11	7	3	28	28	-10	12	3	100	-102	-7	17	3	90	91	-10	2	4	12	-15
-4	4	3	39	-33	13	7	3	19	-16	-8	12	3	23	22	-5	17	3	18	-19	-8	2	4	146	-145
-2	4	3	89	-90	-14	8	3	17	-21	-6	12	3	42	-41	-3	17	3	59	60	-6	2	4	60	57
0	4	3	31	-27	-12	8	3	80	82	-4	12	3	159	-161	-1	17	3	21	18	-4	2	4	15	-11
4	4	3	25	24	-10	8	3	24	-22	-2	12	3	25	26	5	17	3	24	-24	-2	2	4	56	-58
6	4	3	27	-26	-8	8	3	85	88	0	12	3	118	-119	-10	18	3	31	-31	0	2	4	57	54
8	4	3	20	13	-6	8	3	144	-142	2	12	3	50	52	-8	18	3	48	48	2	2	4	21	-22
10	4	3	16	17	-2	8	3	103	-103	6	12	3	30	-31	-6	18	3	41	-42	6	2	4	89	-90
12	4	3	41	41	0	8	3	57	-60	10	12	3	24	-21	-2	18	3	25	-25	8	2	4	25	-24
-17	5	3	32	-32	2	8	3	70	67	-13	13	3	33	34	2	18	3	17	-17	10	2	4	30	-31
-15	5	3	56	54	4	8	3	51	-54	-11	13	3	74	-74	4	18	3	46	46	12	2	4	23	24
-13	5	3	40	37	6	8	3	100	100	-9	13	3	26	24	-7	19	3	23	24	-19	3	4	112	-113
-11	5	3	150	154	10	8	3	52	-54	-7	13	3	20	18	-5	19	3	56	-55	-17	3	4	12	-11
-9	5	3	16	13	-15	9	3	40	40	-5	13	3	73	73	-3	19	3	59	59	-15	3	4	38	-37
-7	5	3	83	81	-11	9	3	49	47	-3	13	3	116	116	1	19	3	38	36	-13	3	4	62	-62
-3	5	3	40	-40	-9	9	3	52	54	-1	13	3	22	22	-18	0	4	55	58	-11	3	4	173	175
-1	5	3	174	174	-7	9	3	45	45	1	13	3	27	28	-16	0	4	143	-146	-9	3	4	62	-64
3	5	3	173	176	-5	9	3	74	73	3	13	3	30	-28	-14	0	4	199	198	-7	3	4	73	75
5	5	3	44	43	-3	9	3	17	15	5	13	3	29	-32	-12	0	4	25	-25	-5	3	4	42	44
7	5	3	46	47	-1	9	3	84	-84	7	13	3	22	23	-10	0	4	57	59	-3	3	4	143	-139
11	5	3	21	-20	1	9	3	169	175	-14	14	3	32	31	-8	0	4	145	144	-1	3	4	72	-72
13	5	3	24	-23	5	9	3	87	88	-10	14	3	47	46	-6	0	4	136	-137	1	3	4	11	7
-18	6	3	51	48	9	9	3	21	-18	-8	14	3	17	15	-4	0	4	136	133	3	3	4	33	33
-16	6	3	56	-57	-16	10	3	78	78	-4	14	3	46	45	-2	0	4	75	-77	5	3	4	27	28
-14	6	3	84	86	-14	10	3	54	-57	0	14	3	22	22	0	0	4	55	52	7	3	4	19	16
-12	6	3	101	-104	-10	10	3	12	-5	2	14	3	30	30	2	0	4	26	23	9	3	4	36	-37
-8	6	3	56	-54	-6	10	3	85	84	4	14	3	25	-26	4	0	4	129	128	11	3	4	17	-20
-2	6	3	27	23	-2	10	3	29	28	6	14	3	31	33	6	0	4	72	72	-18	4	4	19	12
0	6	3	79	72	0	10	3	44	43	8	14	3	28	32	8	0	4	34	34	-16	4	4	29	28
2	6	3	216	-222	2	10	3	56	-60	-13	15	3	56	-56	10	0	4	92	92	-14	4	4	69	-71
4	6	3	72	73	6	10	3	25	-24	-11	15	3	53	54	12	0	4	74	-73	-12	4	4	48	49
6	6	3	93	-90	8	10	3	27	26	-7	15	3	17	-17	-19	1	4	22	19	-10	4	4	54	50
8	6	3	43	45	10	10	3	24	23	-5	15	3	23	-23	-17	1	4	22	19	-8	4	4	41	39
10	6	3	61	60	12	10	3	32	33	-3	15	3	86	-86	-15	1	4	13	-8	-6	4	4	51	-48
12	6	3	68	-68	-17	11	3	60	-62	-1	15	3	45	-43	-11	1	4	18	-18	-4	4	4	13	7
-19	7	3	20	-20	-13	11	3	44	-42	1	15	3	29	29	-9	1	4	45	-49	-2	4	4	18	-18
-15	7	3	50	-50	-7	11	3	46	-46	3	15	3	18	17	-7	1	4	71	78	0	4	4	49	45
-13	7	3	33	-32	-5	11	3	19	-15	7	15	3	36	34	-5	1	4	71	-63	2	4	4	45	45
-11	7	3	107	-107	-3	11	3	86	-86	-12	16	3	44	-45	-3	1	4	133	136	4	4	4	32	-33
-9	7	3	102	-100	-1	11	3	72	72	-10	16	3	27	24	-1	1	4	15	9	6	4	4	123	126
-7	7	3	46	43	1	11	3	66	-67	-8	16	3	44	-43	1	1	4	49	-51	-19	5	4	119	122
-5	7	3	112	-115	3	11	3	77	-78	-4	16	3	19	-19	5	1	4	80	-78	-15	5	4	55	55
-3	7	3	103	103	5	11	3	62	64	-2	16	3	50	-51	7	1	4	21	20	-13	5	4	63	62
-1	7	3	58	-57	7	11	3	91	-90	0	16	3	46	42	9	1	4	16	11	-11	5	4	87	-85
3	7	3	81	-79	9	11	3	52	50	2	16	3	97	-100	-20	2	4	19	21	-9	5	4	47	48
5	7	3	133	-137	11	11	3	86	-89	4	16	3	23	23	-16	2	4	48	46	-7	5	4	38	-36
7	7	3	13	-14	-16	12	3	20	-20	6	16	3	27	-31	-14	2	4	33	-35	-5	5	4	85	88

H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC
-3	5	4	103	102	-15	9	4	22	19	-3	13	4	40	41	-19	1	5	43	42	4	4	5	41	42
-1	5	4	49	48	-13	9	4	46	-44	1	13	4	65	-65	-17	1	5	32	-35	6	4	5	29	30
1	5	4	65	64	-11	9	4	140	145	3	13	4	72	71	-13	1	5	66	70	8	4	5	45	-45
3	5	4	60	-58	-7	9	4	53	56	5	13	4	20	-22	-11	1	5	60	-59	-19	5	5	30	-26
5	5	4	21	21	-5	9	4	57	59	7	13	4	44	44	-9	1	5	91	88	-15	5	5	31	-30
7	5	4	102	-104	-1	9	4	65	64	-16	14	4	31	30	-7	1	5	22	-23	-13	5	5	32	32
9	5	4	61	60	1	9	4	63	64	-12	14	4	27	25	-5	1	5	46	44	-11	5	5	60	61
11	5	4	21	21	7	9	4	45	45	-10	14	4	56	53	-3	1	5	31	34	-9	5	5	29	29
-20	6	4	31	30	9	9	4	25	-28	-8	14	4	29	-31	-1	1	5	34	-32	-7	5	5	195	194
-16	6	4	24	-26	-16	10	4	55	-57	-6	14	4	42	43	1	1	5	56	-58	-5	5	5	152	-155
-14	6	4	73	76	-14	10	4	55	55	-4	14	4	14	-13	3	1	5	20	17	-3	5	5	128	126
-12	6	4	20	20	-12	10	4	17	-15	2	14	4	47	46	5	1	5	15	13	-1	5	5	139	-137
-10	6	4	60	-62	-10	10	4	126	127	4	14	4	18	16	9	1	5	41	40	3	5	5	58	57
-8	6	4	55	54	-4	10	4	33	33	6	14	4	32	29	-18	2	5	70	-70	5	5	5	33	-33
-4	6	4	16	17	-2	10	4	180	-179	-15	15	4	23	22	-14	2	5	109	-113	7	5	5	106	106
-2	6	4	77	75	0	10	4	99	99	-13	15	4	48	-46	-10	2	5	77	76	-18	6	5	30	28
0	6	4	109	-112	2	10	4	18	-17	-7	15	4	38	-39	-8	2	5	72	-70	-16	6	5	42	-43
2	6	4	68	68	4	10	4	72	75	-5	15	4	78	76	-6	2	5	31	31	-14	6	5	36	34
8	6	4	31	32	6	10	4	67	69	1	15	4	77	74	-4	2	5	109	-109	-12	6	5	72	-70
10	6	4	27	25	8	10	4	15	-10	3	15	4	66	-66	-2	2	5	56	-57	-10	6	5	94	-99
-19	7	4	24	-21	-17	11	4	18	-21	-2	16	4	56	-57	0	2	5	36	-35	-8	6	5	21	18
-17	7	4	85	-84	-15	11	4	39	-40	0	16	4	32	-32	2	2	5	80	-78	-6	6	5	109	-112
-15	7	4	32	-32	-13	11	4	23	25	2	16	4	43	43	6	2	5	18	18	-2	6	5	70	72
-13	7	4	13	-14	-11	11	4	74	-76	4	16	4	36	-36	8	2	5	27	-25	0	6	5	79	-80
-11	7	4	15	10	-9	11	4	76	-78	-9	17	4	43	41	-19	3	5	24	-21	2	6	5	26	-26
-9	7	4	16	-12	-7	11	4	24	24	-5	17	4	20	-20	-17	3	5	13	13	4	6	5	14	-12
-5	7	4	90	-89	-5	11	4	43	-41	-3	17	4	43	-40	-15	3	5	50	49	6	6	5	62	-62
-3	7	4	55	-54	-3	11	4	51	51	1	17	4	34	-35	-13	3	5	119	-123	-15	7	5	28	26
-1	7	4	48	-47	-1	11	4	76	-77	-8	18	4	15	7	-11	3	5	87	89	-11	7	5	35	-35
1	7	4	77	-80	1	11	4	19	-19	-6	18	4	28	28	-9	3	5	76	-78	-9	7	5	57	-56
3	7	4	31	34	5	11	4	46	-48	-2	18	4	119	121	-7	3	5	84	-85	-7	7	5	36	-36
5	7	4	23	-24	7	11	4	42	-41	0	18	4	29	-27	-5	3	5	17	14	-5	7	5	60	-61
7	7	4	24	-23	-16	12	4	39	-38	-20	0	5	25	-22	-3	3	5	99	-94	-3	7	5	69	69
9	7	4	36	35	-14	12	4	55	53	-18	0	5	88	91	-1	3	5	46	47	1	7	5	26	-28
11	7	4	62	-63	-12	12	4	52	-52	-16	0	5	29	27	1	3	5	62	61	3	7	5	13	5
-16	8	4	73	72	-10	12	4	62	-64	-14	0	5	75	71	3	3	5	105	-106	5	7	5	39	-40
-14	8	4	67	-67	-8	12	4	18	15	-12	0	5	17	13	5	3	5	31	29	7	7	5	32	-35
-10	8	4	62	-63	-6	12	4	87	-89	-10	0	5	147	-148	7	3	5	69	-69	-16	8	5	30	-31
-8	8	4	80	-83	-4	12	4	50	51	-8	0	5	112	115	9	3	5	42	-43	-12	8	5	54	-53
-6	8	4	29	32	-2	12	4	38	39	-6	0	5	75	-75	-16	4	5	22	19	-10	8	5	108	110
-4	8	4	11	12	0	12	4	39	38	-4	0	5	30	30	-14	4	5	27	26	-6	8	5	69	67
-2	8	4	37	39	2	12	4	46	-46	-2	0	5	199	200	-10	4	5	24	24	-2	8	5	95	-94
0	8	4	13	-10	6	12	4	66	-65	0	0	5	40	-38	-8	4	5	41	-42	0	8	5	93	93
2	8	4	34	33	-13	13	4	17	19	2	0	5	155	156	-6	4	5	52	52	2	8	5	83	-83
4	8	4	41	-40	-11	13	4	79	80	4	0	5	18	-18	-4	4	5	79	80	4	8	5	65	65
6	8	4	19	-16	-9	13	4	27	-26	6	0	5	58	-59	-2	4	5	25	-24	6	8	5	20	21
10	8	4	29	-28	-7	13	4	108	109	8	0	5	54	57	0	4	5	93	96	-11	9	5	70	72
-17	9	4	69	71	-5	13	4	56	-56	10	0	5	23	-24	2	4	5	23	24	-9	9	5	27	27

H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC
-7	9	5	30	-33	-5	15	5	24	-24	-13	3	6	16	15	-14	8	6	35	37	1	13	6	28	-27
-5	9	5	99	97	-1	15	5	67	-66	-11	3	6	17	17	-12	8	6	25	27	-16	14	6	23	-20
-3	9	5	104	-106	-16	16	5	24	-26	-9	3	6	34	34	-10	8	6	23	-18	-12	14	6	32	31
1	9	5	17	16	-12	16	5	29	-29	-5	3	6	55	53	-8	8	6	31	-33	-8	14	6	42	42
3	9	5	23	-27	-10	16	5	19	-18	-3	3	6	60	-63	-6	8	6	36	-39	-6	14	6	27	26
5	9	5	56	55	-6	16	5	54	-54	-1	3	6	31	-28	-4	8	6	19	23	-4	14	6	24	22
-16	10	5	66	68	-2	16	5	36	-37	1	3	6	13	12	-2	8	6	15	16	0	14	6	37	34
-14	10	5	47	-49	0	16	5	33	31	3	3	6	70	-69	0	8	6	42	43	-15	15	6	41	38
-12	10	5	56	56	-11	17	5	20	-22	5	3	6	66	65	2	8	6	18	17	-11	15	6	44	42
-10	10	5	52	-49	-9	17	5	37	-37	-18	4	6	17	16	4	8	6	29	-28	-9	15	6	46	-44
-8	10	5	38	-40	-5	17	5	49	-49	-12	4	6	18	17	-17	9	6	50	50	-3	15	6	56	-56
-4	10	5	22	-25	-3	17	5	45	44	-10	4	6	55	60	-11	9	6	85	86	-1	15	6	79	78
-2	10	5	103	103	-20	0	6	101	104	-8	4	6	42	41	-9	9	6	50	-51	-14	16	6	62	-63
2	10	5	82	80	-16	0	6	26	-21	-6	4	6	57	55	-7	9	6	47	45	-8	16	6	30	-30
4	10	5	35	-40	-14	0	6	54	51	-4	4	6	16	16	-5	9	6	36	-36	-6	16	6	26	27
-17	11	5	28	-30	-12	0	6	38	-37	-2	4	6	19	19	-1	9	6	42	41	-4	16	6	48	-47
-11	11	5	43	-42	-10	0	6	126	126	0	4	6	50	51	1	9	6	48	48	0	16	6	44	-42
-9	11	5	74	74	-8	0	6	64	66	6	4	6	18	20	-16	10	6	20	-17	-13	17	6	37	-40
-5	11	5	35	-35	-6	0	6	105	107	-19	5	6	21	24	-14	10	6	33	-33	-11	17	6	25	-24
-3	11	5	34	36	-4	0	6	74	72	-15	5	6	84	85	-12	10	6	18	-17	-9	17	6	39	37
-1	11	5	35	-33	-2	0	6	68	70	-13	5	6	26	22	-10	10	6	58	59	-7	17	6	19	-19
1	11	5	23	-23	0	0	6	42	-43	-7	5	6	85	-87	-6	10	6	87	85	-1	17	6	39	-39
-16	12	5	46	-46	2	0	6	25	-22	-3	5	6	23	-24	-2	10	6	20	-18	-18	0	7	45	-44
-10	12	5	42	-42	4	0	6	65	64	-1	5	6	89	90	2	10	6	28	-27	-16	0	7	79	87
-8	12	5	36	35	6	0	6	16	13	3	5	6	57	57	-15	11	6	42	39	-14	0	7	66	67
-6	12	5	26	-24	-17	1	6	27	26	5	5	6	13	9	-13	11	6	34	-32	-10	0	7	60	57
-4	12	5	35	-34	-15	1	6	53	51	-18	6	6	47	-49	-11	11	6	27	27	-8	0	7	30	-28
-2	12	5	21	21	-13	1	6	34	-34	-16	6	6	25	22	-9	11	6	73	-76	-6	0	7	13	16
0	12	5	128	-126	-11	1	6	26	29	-14	6	6	30	-28	-7	11	6	27	25	-2	0	7	19	-17
2	12	5	13	15	-9	1	6	88	-90	-12	6	6	16	-5	-5	11	6	51	-54	0	0	7	25	26
-15	13	5	90	91	-7	1	6	81	77	-10	6	6	65	-64	-3	11	6	22	20	2	0	7	72	73
-13	13	5	22	-18	-5	1	6	94	-100	-8	6	6	60	60	1	11	6	31	-33	-17	1	7	37	-40
-11	13	5	22	-21	-3	1	6	52	51	-6	6	6	15	11	3	11	6	54	52	-15	1	7	31	30
-9	13	5	19	-17	1	1	6	16	-13	-2	6	6	54	57	-16	12	6	33	-31	-13	1	7	28	-24
-7	13	5	35	-35	3	1	6	43	42	0	6	6	107	-106	-14	12	6	101	99	-11	1	7	25	-22
-5	13	5	23	21	5	1	6	48	-48	2	6	6	40	39	-12	12	6	95	-97	-9	1	7	42	42
-1	13	5	30	31	7	1	6	38	37	4	6	6	32	-35	-10	12	6	16	16	-7	1	7	47	-46
3	13	5	25	-27	-16	2	6	49	-47	6	6	6	27	-28	-6	12	6	63	-65	-5	1	7	71	72
-16	14	5	52	53	-14	2	6	30	29	-17	7	6	50	-50	-4	12	6	34	33	3	1	7	28	-27
-12	14	5	25	25	-12	2	6	37	-36	-11	7	6	67	-68	-2	12	6	22	-20	-16	2	7	43	-41
-10	14	5	22	23	-10	2	6	63	-64	-9	7	6	52	51	0	12	6	32	33	-14	2	7	95	-95
-8	14	5	26	-25	-8	2	6	53	-52	-7	7	6	19	20	-15	13	6	37	-40	-12	2	7	38	36
-6	14	5	40	42	-6	2	6	79	-82	-3	7	6	32	-30	-13	13	6	17	18	-10	2	7	60	-63
-2	14	5	27	29	-4	2	6	23	-23	-1	7	6	65	-60	-11	13	6	37	-36	-8	2	7	29	29
0	14	5	58	58	-2	2	6	71	-68	1	7	6	19	-16	-9	13	6	33	31	-6	2	7	20	18
-15	15	5	60	-62	0	2	6	52	51	3	7	6	41	-43	-7	13	6	29	24	-4	2	7	28	-26
-11	15	5	75	74	4	2	6	53	-56	-18	8	6	40	38	-3	13	6	36	35	-2	2	7	30	28
-7	15	5	52	51	-15	3	6	68	-68	-16	8	6	18	-19	-1	13	6	47	-46	0	2	7	78	-76

OBSERVED AND CALCULATED STRUCTURE FACTORS FOR NATURAL CLINOPTILOLITE FROM WEITENDORF

H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC
2	2	7	24	-24	-10	6	7	60	61	-1	9	7	29	28	-6	14	7	36	34	-14	2	8	40	41
-17	3	7	35	35	-8	6	7	54	-57	-16	10	7	22	23	-4	14	7	19	-18	-10	2	8	26	21
-15	3	7	46	-45	-6	6	7	34	-35	-14	10	7	36	36	-2	14	7	32	32	-8	2	8	27	-27
-13	3	7	52	54	-4	6	7	58	55	-12	10	7	50	50	-15	15	7	39	-41	-6	2	8	22	-20
-9	3	7	88	-87	-2	6	7	73	-72	-10	10	7	30	27	-9	15	7	17	-15	-4	2	8	63	-65
-7	3	7	14	13	0	6	7	29	29	-8	10	7	20	-21	-5	15	7	21	20	-2	2	8	21	-21
-5	3	7	116	-114	2	6	7	32	-33	-6	10	7	25	-26	-14	16	7	45	44	-13	3	8	41	-41
3	3	7	37	36	-11	7	7	24	20	0	10	7	36	37	-12	16	7	61	-64	-9	3	8	45	-46
-14	4	7	51	53	-9	7	7	62	-61	-15	11	7	45	43	-10	16	7	47	46	-7	3	8	36	35
-12	4	7	22	24	-7	7	7	21	-18	-13	11	7	45	-43	-8	16	7	58	-60	-10	4	8	21	-21
-10	4	7	51	50	-5	7	7	85	-81	-11	11	7	40	-39	-2	16	7	49	-50	-4	4	8	24	-25
-8	4	7	21	-23	-3	7	7	19	17	-9	11	7	50	53	0	16	7	38	39	-2	4	8	55	57
-6	4	7	25	25	-1	7	7	20	-22	-7	11	7	76	-74	-11	17	7	15	9	-13	5	8	35	33
0	4	7	44	43	-14	8	7	41	-41	-5	11	7	56	57	-7	17	7	17	-17	-11	5	8	27	27
-15	5	7	23	25	-10	8	7	35	-35	-1	11	7	33	-32	-5	17	7	35	-35	-9	5	8	71	69
-13	5	7	53	-55	-8	8	7	28	29	-14	12	7	76	-73	-12	0	8	45	-48	-7	5	8	53	-54
-9	5	7	39	40	-6	8	7	83	81	-10	12	7	21	-24	-10	0	8	38	34	-14	6	8	20	-22
-7	5	7	41	44	-4	8	7	37	-41	0	12	7	90	-87	-8	0	8	37	32	-4	6	8	35	37
-5	5	7	67	68	-2	8	7	27	28	-13	13	7	38	39	-6	0	8	17	-18	-13	7	8	84	-85
-3	5	7	32	31	0	8	7	39	-37	-11	13	7	15	-10	-4	0	8	129	136	-11	7	8	30	-33
-1	5	7	29	-29	-15	9	7	25	-28	-9	13	7	22	-18	-2	0	8	44	-44	-9	7	8	26	-26
-16	6	7	39	-39	-13	9	7	24	23	-5	13	7	29	-29	-7	1	8	13	9	-7	7	8	22	-19
-14	6	7	62	63	-9	9	7	20	-18	-12	14	7	64	63	-1	1	8	24	-25	-5	7	8	51	52
-12	6	7	98	-98	-7	9	7	33	35	-8	14	7	24	20	-16	2	8	30	-28	-8	8	8	26	-26

OBSERVED AND CALCULATED STRUCTURE FACTORS FOR CLINOPTILOLITE DEHYD1 FROM WEITENDORF

H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC
2	0	0	233	-243	9	5	0	113	115	8	12	0	58	-63	14	0	1	65	-65	-14	4	1	23	18
4	0	0	231	230	11	5	0	41	40	10	12	0	58	56	16	0	1	33	34	-12	4	1	45	-46
6	0	0	26	-23	13	5	0	46	-47	12	12	0	23	-27	-15	1	1	30	29	-10	4	1	52	53
8	0	0	70	-74	15	5	0	28	28	14	12	0	29	-31	-11	1	1	34	35	-8	4	1	134	133
10	0	0	153	148	17	5	0	42	-44	1	13	0	18	15	-9	1	1	14	17	-6	4	1	55	50
12	0	0	15	-11	0	6	0	79	82	3	13	0	13	-5	-7	1	1	83	-82	-4	4	1	145	144
14	0	0	78	72	2	6	0	19	-15	5	13	0	85	-87	-5	1	1	72	69	-2	4	1	84	-81
16	0	0	65	64	4	6	0	65	-58	7	13	0	32	32	-3	1	1	94	-105	0	4	1	23	22
18	0	0	23	18	6	6	0	37	37	9	13	0	71	-70	-1	1	1	74	79	2	4	1	62	-63
1	1	0	36	-35	8	6	0	98	-94	11	13	0	38	41	1	1	1	194	207	4	4	1	130	131
3	1	0	55	-59	12	6	0	54	56	0	14	0	38	35	3	1	1	107	-103	6	4	1	105	-105
5	1	0	20	18	14	6	0	57	-55	2	14	0	78	75	5	1	1	92	92	8	4	1	93	88
7	1	0	20	-15	16	6	0	17	18	4	14	0	31	-32	7	1	1	46	-48	10	4	1	26	28
9	1	0	15	-11	1	7	0	73	73	6	14	0	18	-19	11	1	1	83	84	12	4	1	26	-24
11	1	0	32	34	3	7	0	31	-37	8	14	0	13	-12	13	1	1	54	-52	14	4	1	26	24
13	1	0	30	31	5	7	0	30	30	10	14	0	14	-13	15	1	1	42	43	16	4	1	43	-45
15	1	0	33	-30	7	7	0	149	-151	12	14	0	24	25	-18	2	1	35	-31	-19	5	1	32	-31
17	1	0	28	27	9	7	0	97	-97	1	15	0	26	-25	-16	2	1	13	6	-17	5	1	81	84
0	2	0	266	-292	11	7	0	42	45	3	15	0	34	33	-14	2	1	21	16	-15	5	1	26	-25
2	2	0	115	-120	15	7	0	30	31	5	15	0	47	48	-12	2	1	29	-29	-13	5	1	127	126
4	2	0	18	-16	0	8	0	90	80	9	15	0	66	65	-10	2	1	63	-59	-11	5	1	54	52
6	2	0	74	-72	2	8	0	62	-57	2	16	0	31	-31	-8	2	1	16	11	-9	5	1	71	-72
8	2	0	24	24	6	8	0	46	-48	4	16	0	32	32	-6	2	1	162	-165	-7	5	1	23	21
10	2	0	59	-59	8	8	0	87	85	8	16	0	42	40	-4	2	1	135	-138	-5	5	1	93	-101
12	2	0	13	-11	10	8	0	28	-29	3	17	0	53	-52	-2	2	1	28	30	-3	5	1	168	161
14	2	0	80	-77	14	8	0	49	-51	7	17	0	67	-65	0	2	1	24	-22	-1	5	1	16	-10
16	2	0	45	-45	1	9	0	88	-86	9	17	0	17	-16	2	2	1	81	80	1	5	1	193	203
18	2	0	37	-35	3	9	0	78	79	4	18	0	17	-18	4	2	1	28	-25	3	5	1	78	76
1	3	0	62	-64	5	9	0	59	-60	5	19	0	15	16	6	2	1	92	-103	5	5	1	83	82
3	3	0	197	194	7	9	0	106	106	7	19	0	37	37	8	2	1	45	42	7	5	1	25	27
5	3	0	207	-207	9	9	0	68	69	0	20	0	52	50	10	2	1	141	-138	9	5	1	80	-81
7	3	0	59	57	11	9	0	48	-51	2	20	0	15	-12	-19	3	1	29	30	11	5	1	57	58
9	3	0	21	-20	13	9	0	30	29	4	20	0	29	30	-17	3	1	72	-69	15	5	1	34	34
11	3	0	63	-62	0	10	0	124	126	-18	0	1	50	52	-13	3	1	92	-94	-16	6	1	22	-15
13	3	0	17	12	2	10	0	43	-44	-16	0	1	19	-20	-11	3	1	46	-47	-14	6	1	20	-19
15	3	0	17	17	4	10	0	119	118	-14	0	1	49	-48	-9	3	1	19	20	-12	6	1	31	32
0	4	0	13	-17	6	10	0	68	-69	-12	0	1	135	135	-7	3	1	17	14	-10	6	1	44	-39
2	4	0	172	177	12	10	0	25	-24	-8	0	1	10	8	-3	3	1	12	-3	-6	6	1	119	-117
4	4	0	44	44	14	10	0	58	65	-6	0	1	123	115	-1	3	1	120	-119	-4	6	1	42	44
6	4	0	71	62	3	11	0	12	7	-4	0	1	150	148	1	3	1	230	-230	-2	6	1	137	-138
8	4	0	35	34	5	11	0	20	-17	-2	0	1	110	112	3	3	1	32	30	0	6	1	159	159
10	4	0	23	-22	7	11	0	14	-12	0	0	1	53	-55	5	3	1	57	-62	2	6	1	123	-129
14	4	0	61	62	13	11	0	15	14	2	0	1	42	-46	7	3	1	60	61	4	6	1	79	-75
18	4	0	25	25	15	11	0	19	-20	4	0	1	37	-37	9	3	1	53	52	6	6	1	73	71
1	5	0	23	24	0	12	0	97	97	6	0	1	72	73	11	3	1	116	-115	8	6	1	126	-130
3	5	0	158	-164	2	12	0	138	-140	8	0	1	45	-44	13	3	1	59	58	10	6	1	88	95
5	5	0	81	90	4	12	0	30	30	10	0	1	80	79	15	3	1	62	-61	12	6	1	24	-22
7	5	0	12	-10	6	12	0	60	59	12	0	1	97	94	17	3	1	27	-28	16	6	1	42	41

H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC
-15	7	1	40	-37	-6	10	1	25	-22	-10	14	1	28	26	3	19	1	34	32	-17	3	2	54	-51
-13	7	1	81	-81	-4	10	1	57	58	-8	14	1	35	33	-4	20	1	16	16	-15	3	2	38	39
-11	7	1	26	26	-2	10	1	32	30	-6	14	1	16	12	0	20	1	16	13	-13	3	2	12	-10
-9	7	1	49	-53	0	10	1	140	-138	-4	14	1	78	77	-20	0	2	25	-24	-11	3	2	43	-43
-7	7	1	71	72	2	10	1	70	71	-2	14	1	12	3	-16	0	2	70	71	-9	3	2	77	76
-5	7	1	34	-33	4	10	1	56	-56	2	14	1	24	-20	-14	0	2	71	74	-7	3	2	30	-35
-3	7	1	67	-68	6	10	1	38	36	4	14	1	19	20	-12	0	2	91	93	-5	3	2	51	-45
-1	7	1	22	22	8	10	1	88	91	8	14	1	58	57	-10	0	2	107	102	-3	3	2	41	-44
1	7	1	25	23	12	10	1	41	41	12	14	1	34	32	-8	0	2	53	-56	-1	3	2	156	-163
3	7	1	137	-136	-15	11	1	20	-21	-13	15	1	19	19	-6	0	2	105	99	1	3	2	109	112
5	7	1	61	-62	-13	11	1	14	14	-9	15	1	29	30	-4	0	2	226	-229	3	3	2	55	50
7	7	1	19	18	-11	11	1	21	-20	-7	15	1	16	19	-2	0	2	105	104	5	3	2	51	51
9	7	1	15	19	-9	11	1	35	36	-5	15	1	61	-58	0	0	2	172	168	7	3	2	71	-70
11	7	1	38	38	-7	11	1	18	-12	-3	15	1	69	67	2	0	2	87	83	11	3	2	95	-92
13	7	1	18	-23	-5	11	1	56	57	-1	15	1	27	-28	4	0	2	29	33	15	3	2	15	-14
15	7	1	55	-58	-3	11	1	16	-13	1	15	1	92	92	6	0	2	10	6	-18	4	2	17	-18
-18	8	1	46	-42	-1	11	1	12	6	3	15	1	36	35	8	0	2	39	-38	-16	4	2	45	46
-14	8	1	52	51	1	11	1	25	26	5	15	1	23	-22	10	0	2	22	17	-14	4	2	28	-27
-12	8	1	30	-29	3	11	1	87	-87	7	15	1	34	36	16	0	2	52	51	-12	4	2	85	85
-10	8	1	82	82	5	11	1	88	89	9	15	1	14	-10	-17	1	2	32	34	-8	4	2	68	68
-8	8	1	108	-104	11	11	1	25	26	11	15	1	19	-19	-15	1	2	48	-46	-6	4	2	65	-72
-6	8	1	19	16	13	11	1	48	-51	-12	16	1	25	-26	-13	1	2	17	19	-4	4	2	42	-41
-4	8	1	18	16	-16	12	1	19	22	-8	16	1	20	21	-11	1	2	36	35	-2	4	2	14	10
-2	8	1	29	24	-14	12	1	28	-27	-6	16	1	72	-69	-9	1	2	104	-103	0	4	2	37	-38
0	8	1	17	17	-12	12	1	65	64	-4	16	1	48	44	-7	1	2	81	87	2	4	2	37	-33
2	8	1	36	-35	-10	12	1	50	-48	-2	16	1	54	-51	-5	1	2	116	-114	4	4	2	42	41
4	8	1	93	92	-8	12	1	44	-41	0	16	1	18	15	-3	1	2	129	131	8	4	2	67	69
6	8	1	97	-99	-6	12	1	39	-38	8	16	1	27	-31	-1	1	2	58	59	10	4	2	123	-123
8	8	1	18	18	-4	12	1	102	-101	-11	17	1	16	-14	1	1	2	104	-104	-19	5	2	30	29
10	8	1	71	-70	0	12	1	73	71	-9	17	1	32	-35	3	1	2	46	43	-17	5	2	27	25
12	8	1	22	-21	4	12	1	16	16	-7	17	1	56	56	5	1	2	80	-78	-13	5	2	53	-53
14	8	1	29	29	6	12	1	82	-87	-5	17	1	40	-41	7	1	2	73	74	-9	5	2	34	-33
16	8	1	29	-31	8	12	1	43	-42	-3	17	1	24	25	9	1	2	25	-24	-7	5	2	144	144
-17	9	1	33	-31	10	12	1	53	-54	-1	17	1	65	-67	11	1	2	30	32	-3	5	2	60	61
-15	9	1	65	64	14	12	1	39	-40	1	17	1	36	-38	-20	2	2	26	22	-1	5	2	67	67
-9	9	1	39	37	-13	13	1	39	-41	5	17	1	26	-24	-16	2	2	75	-74	3	5	2	44	-44
-7	9	1	65	-69	-11	13	1	40	39	7	17	1	25	26	-12	2	2	144	-143	5	5	2	30	27
-3	9	1	17	17	-9	13	1	44	-46	-8	18	1	28	-26	-8	2	2	23	-20	7	5	2	16	-11
-1	9	1	36	-38	-7	13	1	57	-56	-6	18	1	29	29	-6	2	2	38	-40	9	5	2	89	87
1	9	1	42	44	-5	13	1	56	54	-4	18	1	13	-10	-4	2	2	219	218	11	5	2	48	48
3	9	1	110	111	-3	13	1	80	-82	-2	18	1	24	-22	-2	2	2	212	-211	13	5	2	21	20
11	9	1	36	-34	-1	13	1	34	31	0	18	1	44	45	0	2	2	22	20	15	5	2	15	12
13	9	1	38	39	1	13	1	27	-26	2	18	1	54	-50	2	2	2	75	-85	-18	6	2	18	18
15	9	1	13	13	3	13	1	46	-47	4	18	1	33	36	4	2	2	31	-33	-16	6	2	21	20
-16	10	1	29	-30	5	13	1	30	28	8	18	1	17	-16	6	2	2	12	9	-14	6	2	48	-48
-14	10	1	16	-19	7	13	1	48	-50	-3	19	1	20	-19	8	2	2	30	-32	-12	6	2	139	140
-10	10	1	62	-64	9	13	1	23	21	-1	19	1	71	69	10	2	2	73	70	-10	6	2	108	-108
-8	10	1	175	178	11	13	1	14	14	1	19	1	15	13	14	2	2	26	24	-8	6	2	48	53

1

OBSERVED AND CALCULATED STRUCTURE FACTORS FOR CLINOPTILOLITE DEHYD1 FROM WEITENDORF

H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC
-4	6	2	34	27	3	9	2	16	12	5	13	2	33	33	-4	20	2	16	14	12	2	3	20	-23
-2	6	2	52	58	5	9	2	19	-19	7	13	2	29	-27	0	20	2	14	12	14	2	3	30	-30
0	6	2	30	23	7	9	2	95	96	9	13	2	16	15	-20	0	3	41	42	-19	3	3	28	-29
2	6	2	34	31	9	9	2	20	19	-14	14	2	63	62	-18	0	3	41	43	-17	3	3	33	33
4	6	2	25	27	13	9	2	38	37	-10	14	2	39	39	-16	0	3	29	27	-15	3	3	55	-55
6	6	2	19	-20	-16	10	2	18	16	-8	14	2	24	22	-14	0	3	50	-52	-13	3	3	93	-94
8	6	2	37	34	-14	10	2	48	45	-6	14	2	78	-78	-12	0	3	81	82	-11	3	3	27	-29
10	6	2	12	12	-12	10	2	16	16	-4	14	2	70	69	-10	0	3	199	-202	-9	3	3	17	-17
12	6	2	59	64	-10	10	2	87	87	-2	14	2	77	-80	-6	0	3	42	-34	-7	3	3	35	-34
14	6	2	44	-47	-4	10	2	17	12	0	14	2	101	101	-4	0	3	17	-4	-5	3	3	18	-18
-17	7	2	50	-47	-2	10	2	17	-19	2	14	2	29	31	-2	0	3	191	195	-3	3	3	25	27
-15	7	2	12	7	0	10	2	37	38	4	14	2	27	26	0	0	3	76	-73	-1	3	3	94	-99
-13	7	2	52	53	2	10	2	91	94	6	14	2	20	21	2	0	3	77	-76	1	3	3	10	14
-11	7	2	21	17	4	10	2	63	63	-13	15	2	24	-23	4	0	3	22	21	3	3	3	127	-124
-9	7	2	24	-22	6	10	2	64	69	-9	15	2	37	35	6	0	3	135	-135	5	3	3	67	-70
-7	7	2	160	-162	10	10	2	15	-12	-5	15	2	47	45	8	0	3	102	96	7	3	3	47	50
-5	7	2	39	-42	-17	11	2	38	38	-3	15	2	60	57	10	0	3	40	38	9	3	3	94	-94
-3	7	2	51	-58	-15	11	2	44	-41	-1	15	2	34	-36	12	0	3	43	41	11	3	3	28	24
-1	7	2	15	10	-11	11	2	45	46	1	15	2	12	7	14	0	3	31	30	-20	4	3	21	22
1	7	2	22	23	-9	11	2	131	-131	5	15	2	14	-14	-19	1	3	28	30	-12	4	3	76	-76
3	7	2	27	-25	-7	11	2	148	150	7	15	2	20	23	-17	1	3	44	-46	-8	4	3	79	-77
5	7	2	61	64	-5	11	2	144	-145	9	15	2	16	14	-15	1	3	61	64	-6	4	3	123	119
7	7	2	109	-110	-3	11	2	32	30	-10	16	2	40	-40	-11	1	3	31	31	-4	4	3	37	-30
9	7	2	31	-33	-1	11	2	37	-37	-8	16	2	30	28	-7	1	3	30	30	-2	4	3	56	-56
11	7	2	45	-43	1	11	2	69	-67	-6	16	2	18	20	-5	1	3	34	35	0	4	3	49	-44
13	7	2	52	-53	3	11	2	105	108	-4	16	2	22	-21	-3	1	3	33	31	2	4	3	20	15
-16	8	2	23	-21	5	11	2	82	-79	-2	16	2	29	27	-1	1	3	29	-27	4	4	3	16	11
-14	8	2	16	17	7	11	2	13	8	0	16	2	86	-86	1	1	3	75	70	6	4	3	17	-18
-12	8	2	103	-105	9	11	2	39	-39	2	16	2	33	33	3	1	3	47	-45	10	4	3	27	27
-10	8	2	24	22	-16	12	2	25	-24	4	16	2	25	-23	5	1	3	89	86	12	4	3	29	28
-8	8	2	17	-15	-14	12	2	40	-40	6	16	2	30	-31	7	1	3	85	-82	-15	5	3	21	20
-6	8	2	26	-25	-12	12	2	20	-21	8	16	2	48	47	9	1	3	62	61	-13	5	3	69	69
-4	8	2	14	15	-10	12	2	33	-31	-9	17	2	16	-14	11	1	3	21	-18	-11	5	3	135	135
-2	8	2	111	-114	-8	12	2	52	-51	-7	17	2	23	-20	-20	2	3	44	-47	-9	5	3	18	18
0	8	2	14	-13	-6	12	2	39	37	-5	17	2	38	-38	-18	2	3	29	-30	-7	5	3	74	75
2	8	2	61	-64	0	12	2	16	12	-3	17	2	52	-52	-14	2	3	17	-16	-5	5	3	19	13
4	8	2	80	-81	2	12	2	157	-160	5	17	2	33	37	-12	2	3	53	53	-3	5	3	27	-30
6	8	2	42	-42	6	12	2	37	-37	7	17	2	31	-32	-10	2	3	26	23	-1	5	3	120	120
-17	9	2	14	-10	8	12	2	28	-32	-10	18	2	22	-22	-8	2	3	80	79	1	5	3	46	-44
-15	9	2	21	18	10	12	2	46	49	-8	18	2	15	16	-6	2	3	80	-87	3	5	3	179	182
-13	9	2	38	-38	12	12	2	20	-21	-4	18	2	17	-15	-4	2	3	30	-35	5	5	3	26	22
-11	9	2	35	-34	-13	13	2	24	24	0	18	2	13	15	-2	2	3	48	-54	7	5	3	46	48
-9	9	2	73	73	-11	13	2	14	-12	2	18	2	27	-28	0	2	3	26	23	9	5	3	20	19
-7	9	2	41	39	-5	13	2	48	-50	4	18	2	14	12	2	2	3	51	54	11	5	3	32	-30
-5	9	2	37	37	-3	13	2	18	20	-7	19	2	20	22	4	2	3	25	25	-18	6	3	27	27
-3	9	2	103	105	-1	13	2	14	15	-5	19	2	38	38	6	2	3	77	78	-16	6	3	53	-53
-1	9	2	16	-12	1	13	2	39	40	-1	19	2	19	18	8	2	3	16	-11	-14	6	3	86	91
1	9	2	16	18	3	13	2	32	-31	3	19	2	31	-30	10	2	3	62	-60	-12	6	3	67	-66

OBSERVED AND CALCULATED STRUCTURE FACTORS FOR CLINOPTILOLITE DEHYD1 FROM WEITENDORF

H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC
-10	6	3	62	59	-1	9	3	116	-118	-1	13	3	22	-19	-10	0	4	47	46	-1	3	4	85	-88
-8	6	3	62	-60	1	9	3	142	149	1	13	3	16	18	-8	0	4	130	130	3	3	4	13	12
-6	6	3	26	26	5	9	3	75	81	3	13	3	30	-30	-6	0	4	83	-79	5	3	4	30	29
-4	6	3	21	-23	7	9	3	18	18	7	13	3	15	-15	-4	0	4	119	123	7	3	4	28	25
-2	6	3	50	50	9	9	3	25	-25	-14	14	3	21	21	-2	0	4	46	-49	9	3	4	57	-56
0	6	3	99	100	-16	10	3	49	50	-12	14	3	16	-16	0	0	4	41	42	-20	4	4	19	-16
2	6	3	142	-142	-14	10	3	31	-30	-4	14	3	86	84	4	0	4	110	111	-16	4	4	18	17
4	6	3	105	109	-8	10	3	15	14	-2	14	3	42	42	6	0	4	72	69	-14	4	4	78	-79
6	6	3	49	-45	-6	10	3	81	82	0	14	3	17	20	8	0	4	17	17	-12	4	4	46	44
8	6	3	15	15	-4	10	3	52	49	2	14	3	21	17	10	0	4	62	62	-10	4	4	57	55
10	6	3	56	54	-2	10	3	29	29	4	14	3	35	-35	12	0	4	55	-58	-8	4	4	41	38
12	6	3	50	-52	0	10	3	43	41	6	14	3	22	21	-19	1	4	18	17	-6	4	4	26	-22
-17	7	3	37	36	2	10	3	19	-16	-11	15	3	45	44	-17	1	4	33	34	-4	4	4	26	-24
-15	7	3	50	-47	4	10	3	43	43	-9	15	3	19	19	-15	1	4	28	-26	-2	4	4	21	-19
-11	7	3	95	-97	6	10	3	23	-23	-3	15	3	19	-13	-13	1	4	50	53	0	4	4	18	19
-9	7	3	109	-111	8	10	3	45	43	-1	15	3	34	-33	-11	1	4	41	-39	2	4	4	36	35
-7	7	3	58	58	-17	11	3	38	-38	1	15	3	29	31	-9	1	4	30	-33	4	4	4	14	-11
-5	7	3	91	-91	-15	11	3	28	32	3	15	3	27	29	-7	1	4	56	56	6	4	4	87	93
-3	7	3	112	113	-13	11	3	56	-57	7	15	3	46	48	-5	1	4	99	-101	8	4	4	14	11
-1	7	3	42	-45	-11	11	3	23	23	-12	16	3	38	-38	-3	1	4	105	106	10	4	4	23	-21
1	7	3	40	-38	-7	11	3	23	-23	-10	16	3	63	61	-1	1	4	17	16	-19	5	4	91	93
3	7	3	72	-73	-5	11	3	36	32	-8	16	3	45	-46	1	1	4	41	-41	-15	5	4	61	63
5	7	3	111	-116	-3	11	3	51	-51	-4	16	3	23	-26	5	1	4	41	-41	-13	5	4	27	26
7	7	3	21	-21	-1	11	3	68	69	-2	16	3	57	-58	9	1	4	29	32	-11	5	4	83	-84
9	7	3	17	-17	1	11	3	46	-46	0	16	3	35	34	-20	2	4	29	31	-9	5	4	31	32
11	7	3	20	21	3	11	3	67	-68	2	16	3	42	-43	-18	2	4	28	-27	-7	5	4	38	-40
-18	8	3	26	-23	5	11	3	52	51	4	16	3	36	36	-16	2	4	56	55	-5	5	4	75	77
-14	8	3	35	-34	7	11	3	62	-61	-9	17	3	53	-53	-14	2	4	41	-41	-3	5	4	67	62
-12	8	3	58	60	9	11	3	46	45	-7	17	3	54	53	-12	2	4	71	-70	-1	5	4	54	48
-10	8	3	53	-54	11	11	3	39	-39	-5	17	3	18	-17	-8	2	4	150	-149	1	5	4	57	56
-8	8	3	44	43	-16	12	3	29	-29	-3	17	3	25	25	-6	2	4	73	71	3	5	4	75	-75
-6	8	3	140	-139	-14	12	3	22	-20	1	17	3	32	-31	-4	2	4	14	12	5	5	4	69	66
-4	8	3	21	16	-12	12	3	69	69	5	17	3	29	-32	-2	2	4	33	-32	7	5	4	80	-79
-2	8	3	62	-62	-10	12	3	83	-85	-10	18	3	28	-28	0	2	4	40	42	9	5	4	47	49
0	8	3	44	-45	-8	12	3	18	16	-8	18	3	19	17	2	2	4	35	-35	11	5	4	26	26
2	8	3	35	35	-6	12	3	31	-29	-2	18	3	15	-12	4	2	4	46	-43	-18	6	4	42	42
4	8	3	55	-57	-4	12	3	156	-158	0	18	3	15	17	6	2	4	70	-69	-16	6	4	35	-36
6	8	3	48	47	-2	12	3	31	31	2	18	3	31	-30	8	2	4	32	-32	-14	6	4	65	69
8	8	3	15	-15	0	12	3	94	-96	-7	19	3	34	32	10	2	4	29	-29	-12	6	4	23	25
10	8	3	27	-26	2	12	3	19	22	-5	19	3	60	-61	12	2	4	20	19	-10	6	4	60	-59
-17	9	3	12	-13	4	12	3	39	37	-3	19	3	34	34	-19	3	4	83	-83	-8	6	4	54	53
-15	9	3	39	39	6	12	3	40	-39	-1	19	3	17	-18	-17	3	4	15	-16	-4	6	4	21	20
-13	9	3	14	-15	10	12	3	29	-29	1	19	3	16	19	-13	3	4	89	-89	-2	6	4	84	87
-11	9	3	79	77	-15	13	3	18	-18	-20	0	4	22	-24	-11	3	4	139	141	0	6	4	61	-61
-9	9	3	49	47	-13	13	3	33	33	-18	0	4	41	43	-9	3	4	61	-61	2	6	4	27	27
-7	9	3	17	14	-11	13	3	30	-30	-16	0	4	113	-114	-7	3	4	52	48	6	6	4	49	-49
-5	9	3	30	27	-9	13	3	16	-16	-14	0	4	166	170	-5	3	4	21	17	8	6	4	29	27
-3	9	3	15	14	-3	13	3	51	51	-12	0	4	29	-29	-3	3	4	134	-133	-17	7	4	72	-75

OBSERVED AND CALCULATED STRUCTURE FACTORS FOR CLINOPTILOLITE DEHYD1 FROM WEITENDORF

H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC
-5	7	4	87	-93	-7	11	4	31	30	-7	17	4	20	-20	-15	3	5	36	36	2	6	5	13	-14
-3	7	4	33	-37	-5	11	4	46	-45	-3	17	4	50	-49	-13	3	5	116	-121	4	6	5	16	-16
-1	7	4	59	-59	-1	11	4	62	-64	-1	17	4	32	-30	-11	3	5	53	53	6	6	5	22	-21
1	7	4	57	-60	3	11	4	16	15	-6	18	4	13	10	-9	3	5	71	-71	-17	7	5	13	11
9	7	4	23	26	5	11	4	15	13	-4	18	4	44	-45	-7	3	5	87	-86	-13	7	5	18	18
11	7	4	32	-32	7	11	4	22	-23	-2	18	4	52	51	-5	3	5	23	23	-11	7	5	79	-79
-18	8	4	23	-24	9	11	4	15	12	-20	0	5	29	-30	-3	3	5	95	-96	-9	7	5	83	-84
-16	8	4	40	38	-16	12	4	33	-32	-18	0	5	94	95	-1	3	5	42	39	-7	7	5	34	-33
-14	8	4	59	-56	-14	12	4	26	25	-16	0	5	14	10	1	3	5	53	54	-5	7	5	69	-69
-12	8	4	17	-17	-12	12	4	61	-60	-14	0	5	66	64	3	3	5	76	-74	-3	7	5	82	82
-10	8	4	59	-60	-10	12	4	65	-64	-12	0	5	45	45	5	3	5	22	24	1	7	5	26	-29
-8	8	4	66	-69	-8	12	4	21	-18	-10	0	5	156	-160	7	3	5	50	-49	3	7	5	18	20
-6	8	4	20	17	-6	12	4	53	-59	-8	0	5	105	111	9	3	5	22	-25	5	7	5	53	-56
-4	8	4	21	-21	-4	12	4	46	43	-6	0	5	63	-64	-20	4	5	16	11	7	7	5	21	-21
-2	8	4	38	39	-2	12	4	23	21	-4	0	5	41	39	-16	4	5	24	20	-16	8	5	33	-36
0	8	4	56	-58	0	12	4	27	25	-2	0	5	199	192	-14	4	5	32	33	-14	8	5	16	16
2	8	4	31	30	2	12	4	46	-50	0	0	5	44	-43	-10	4	5	42	42	-12	8	5	49	-45
4	8	4	48	-47	6	12	4	50	-52	2	0	5	146	142	-8	4	5	47	-47	-10	8	5	79	78
6	8	4	17	-13	8	12	4	22	-21	4	0	5	37	-37	-6	4	5	46	46	-8	8	5	26	-22
10	8	4	45	-46	-11	13	4	25	24	6	0	5	43	-43	-4	4	5	77	79	-6	8	5	45	47
-17	9	4	62	62	-9	13	4	51	-49	8	0	5	50	47	-2	4	5	47	-47	-2	8	5	58	-56
-15	9	4	28	30	-7	13	4	75	77	-19	1	5	26	26	0	4	5	108	107	0	8	5	50	54
-13	9	4	50	-50	-5	13	4	73	-77	-17	1	5	24	-25	4	4	5	17	16	2	8	5	57	-58
-11	9	4	76	79	-3	13	4	41	44	-15	1	5	14	14	6	4	5	29	30	4	8	5	25	25
-9	9	4	37	-34	1	13	4	60	-63	-13	1	5	50	54	8	4	5	45	-50	-13	9	5	27	-26
-7	9	4	33	33	3	13	4	37	39	-11	1	5	57	-58	-19	5	5	21	-19	-11	9	5	57	58
-5	9	4	35	35	5	13	4	33	-35	-9	1	5	62	65	-17	5	5	25	26	-9	9	5	39	38
-3	9	4	32	32	-12	14	4	25	25	-7	1	5	21	-23	-15	5	5	39	-40	-7	9	5	17	-16
-1	9	4	50	52	-10	14	4	50	49	-5	1	5	32	33	-13	5	5	43	42	-5	9	5	96	96
1	9	4	41	39	-6	14	4	40	40	-3	1	5	31	34	-11	5	5	58	58	-3	9	5	97	-99
3	9	4	25	-26	-4	14	4	23	-24	-1	1	5	35	-33	-9	5	5	18	20	3	9	5	16	-14
7	9	4	29	30	0	14	4	15	-15	1	1	5	13	-10	-7	5	5	171	174	5	9	5	47	51
9	9	4	25	-28	2	14	4	22	26	3	1	5	13	16	-5	5	5	107	-108	-16	10	5	53	53
-14	10	4	36	36	4	14	4	16	15	5	1	5	11	11	-3	5	5	118	119	-14	10	5	29	-31
-12	10	4	24	-23	6	14	4	23	26	9	1	5	16	16	-1	5	5	112	-112	-12	10	5	51	52
-10	10	4	151	152	-13	15	4	28	-30	-20	2	5	13	-11	1	5	5	27	29	-10	10	5	24	-22
-6	10	4	31	31	-11	15	4	13	11	-18	2	5	47	-46	3	5	5	46	47	-8	10	5	34	-34
-4	10	4	48	48	-7	15	4	30	-28	-16	2	5	23	-23	7	5	5	69	73	-6	10	5	29	28
-2	10	4	131	-138	-5	15	4	51	49	-14	2	5	63	-64	9	5	5	21	22	-4	10	5	20	-21
0	10	4	105	112	1	15	4	59	60	-12	2	5	15	-12	-16	6	5	27	-27	-2	10	5	58	58
2	10	4	28	-30	3	15	4	43	-44	-10	2	5	78	78	-14	6	5	42	42	2	10	5	49	48
4	10	4	55	58	5	15	4	20	16	-8	2	5	47	-49	-12	6	5	37	-35	4	10	5	19	-21
6	10	4	63	64	-10	16	4	16	-14	-6	2	5	63	64	-10	6	5	47	-49	-17	11	5	14	-9
8	10	4	16	-12	-4	16	4	30	27	-4	2	5	100	-100	-8	6	5	45	44	-11	11	5	31	-27
-15	11	4	45	-48	-2	16	4	19	-19	-2	2	5	53	-56	-6	6	5	65	-68	-9	11	5	38	41
-13	11	4	38	39	2	16	4	19	23	0	2	5	48	-49	-4	6	5	11	9	-7	11	5	28	-27
-11	11	4	35	-37	4	16	4	28	-30	2	2	5	86	-85	-2	6	5	29	30	-5	11	5	15	-17
-9	11	4	23	-21	-9	17	4	29	30	4	2	5	17	15	0	6	5	58	-58	-3	11	5	31	35

OBSERVED AND CALCULATED STRUCTURE FACTORS FOR CLINOPTILOLITE DEHYD1 FROM WEITENDORF

H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC
-1	11	5	14	-15	5	1	6	42	-44	-17	7	6	49	-51	0	12	6	14	15	-13	5	7	24	-24
1	11	5	42	42	7	1	6	18	20	-15	7	6	16	-20	-13	13	6	29	29	-9	5	7	47	47
3	11	5	21	-23	-18	2	6	19	15	-13	7	6	24	-25	-11	13	6	53	-52	-7	5	7	42	43
-16	12	5	54	-57	-16	2	6	22	-22	-11	7	6	63	-62	-9	13	6	20	16	-5	5	7	60	60
-10	12	5	28	-30	-14	2	6	18	20	-9	7	6	47	46	-5	13	6	18	-18	-3	5	7	18	20
-8	12	5	59	58	-12	2	6	28	-27	-7	7	6	15	17	-3	13	6	28	28	1	5	7	16	-19
-6	12	5	19	-14	-10	2	6	46	-47	-5	7	6	21	17	-1	13	6	29	-30	-16	6	7	23	-24
-4	12	5	30	-29	-8	2	6	73	-72	-1	7	6	59	-60	-8	14	6	31	32	-14	6	7	58	56
0	12	5	97	-99	-6	2	6	75	-75	1	7	6	15	-15	-5	15	6	22	20	-12	6	7	96	-97
-15	13	5	45	45	-4	2	6	25	-27	3	7	6	36	-39	-16	0	7	52	53	-10	6	7	55	54
-13	13	5	22	-19	-2	2	6	60	-61	-18	8	6	35	35	-14	0	7	72	72	-8	6	7	31	-34
-11	13	5	26	-25	0	2	6	39	37	-16	8	6	26	-27	-12	0	7	15	-16	-6	6	7	17	-15
-9	13	5	16	-12	4	2	6	34	-34	-14	8	6	26	27	-10	0	7	47	47	-4	6	7	48	50
-7	13	5	29	-30	-19	3	6	16	-16	-10	8	6	27	-24	-8	0	7	41	-39	-2	6	7	47	-43
-14	14	5	22	20	-15	3	6	81	-84	-8	8	6	22	-23	-4	0	7	18	-17	0	6	7	24	23
-8	14	5	42	-41	-9	3	6	32	35	-6	8	6	40	-40	0	0	7	29	30	-13	7	7	20	20
-6	14	5	31	30	-7	3	6	15	-12	-4	8	6	19	22	2	0	7	53	46	-9	7	7	40	-39
-2	14	5	29	31	-5	3	6	59	58	-2	8	6	20	-19	-17	1	7	34	-35	-7	7	7	23	-23
0	14	5	46	46	-3	3	6	56	-58	0	8	6	20	20	-15	1	7	39	40	-5	7	7	71	-66
-11	15	5	52	52	-1	3	6	32	-29	-17	9	6	51	50	-13	1	7	21	-20	-3	7	7	18	19
-7	15	5	47	46	1	3	6	17	13	-13	9	6	18	17	-11	1	7	12	-14	-14	8	7	36	-35
-3	15	5	19	19	3	3	6	76	-72	-11	9	6	51	52	-9	1	7	48	49	-10	8	7	32	-29
-1	15	5	28	-28	5	3	6	61	59	-9	9	6	46	-48	-7	1	7	33	-33	-8	8	7	13	10
1	15	5	23	24	-18	4	6	21	22	-7	9	6	17	17	-5	1	7	57	57	-6	8	7	36	36
-10	16	5	24	21	-14	4	6	18	-17	-5	9	6	26	-28	3	1	7	32	-28	-4	8	7	35	-35
-6	16	5	16	-14	-10	4	6	56	60	-1	9	6	38	36	-16	2	7	28	-27	0	8	7	27	-25
-2	16	5	45	-49	-8	4	6	36	36	1	9	6	48	46	-14	2	7	84	-86	-15	9	7	39	-41
0	16	5	18	20	-6	4	6	48	48	3	9	6	16	-14	-12	2	7	23	25	-9	9	7	16	-12
-5	17	5	48	-50	0	4	6	19	19	-14	10	6	23	-25	-10	2	7	66	-66	-7	9	7	53	52
-18	0	6	24	-24	4	4	6	12	15	-10	10	6	64	64	-8	2	7	34	33	-3	9	7	13	6
-14	0	6	61	61	6	4	6	16	17	-6	10	6	67	69	-6	2	7	16	16	-14	10	7	26	20
-12	0	6	47	-44	-19	5	6	20	18	-4	10	6	14	-15	-4	2	7	29	-24	-12	10	7	45	48
-10	0	6	107	108	-15	5	6	81	79	-2	10	6	14	-15	-2	2	7	27	24	-10	10	7	14	11
-8	0	6	51	52	-13	5	6	17	13	-13	11	6	28	-26	0	2	7	62	-59	-4	10	7	25	-25
-6	0	6	77	81	-7	5	6	66	-66	-11	11	6	34	32	2	2	7	16	-14	-2	10	7	24	24
-4	0	6	67	70	-5	5	6	21	19	-9	11	6	40	-40	-17	3	7	34	35	-9	11	7	53	53
-2	0	6	51	52	-1	5	6	72	67	-7	11	6	52	52	-15	3	7	49	-52	-7	11	7	57	-60
0	0	6	61	-60	1	5	6	23	17	-5	11	6	30	-31	-13	3	7	39	38	-5	11	7	37	38
4	0	6	32	31	3	5	6	42	42	-3	11	6	20	22	-11	3	7	14	12	-3	11	7	20	-20
6	0	6	25	25	-18	6	6	19	-19	-1	11	6	14	-7	-9	3	7	64	-62	-12	0	8	63	-61
-17	1	6	21	20	-16	6	6	28	26	1	11	6	26	-29	-7	3	7	19	21	-10	0	8	37	35
-15	1	6	21	19	-10	6	6	48	-49	-14	12	6	82	79	-5	3	7	91	-91	-8	0	8	19	15
-13	1	6	12	-12	-8	6	6	23	25	-12	12	6	74	-75	-14	4	7	40	43	-4	0	8	117	115
-9	1	6	63	-65	-4	6	6	34	-35	-10	12	6	17	19	-12	4	7	17	18	-2	0	8	37	-39
-7	1	6	74	74	-2	6	6	74	74	-8	12	6	39	-37	-10	4	7	43	42	-15	1	8	15	-15
-5	1	6	80	-82	0	6	6	100	-99	-6	12	6	59	-61	-8	4	7	34	-33	-13	1	8	18	16
-3	1	6	65	64	2	6	6	47	47	-4	12	6	19	20	-4	4	7	14	-16	-1	1	8	14	-13
3	1	6	48	48	6	6	6	43	-43	-2	12	6	17	-19	0	4	7	49	48	-14	2	8	25	23

OBSERVED AND CALCULATED STRUCTURE FACTORS FOR CLINOPTILOLITE DEHYD1 FROM WEITENDORF

H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC
-10	2	8	15	13	-9	3	8	44	-44	-4	4	8	25	-25	-7	5	8	49	-49	-7	7	8	18	-16
-8	2	8	28	-26	-7	3	8	36	35	-2	4	8	48	45	-4	6	8	32	33	-5	7	8	47	46
-4	2	8	54	-51	-12	4	8	12	8	-13	5	8	36	37	-11	7	8	28	-29	-8	8	8	36	-38
-15	3	8	15	-17	-10	4	8	26	-22	-11	5	8	16	13	-9	7	8	14	-13	-6	8	8	13	9
-13	3	8	25	-22	-6	4	8	30	31	-9	5	8	62	60										

OBSERVED AND CALCULATED STRUCTURE FACTORS FOR CLINOPTILOLITE DEHYD2 FROM WEITENDORF

H	K	L	FO	FC
2	0	0	266	-275
4	0	0	233	222
6	0	0	42	-40
8	0	0	58	-61
10	0	0	138	137
14	0	0	78	72
16	0	0	59	58
18	0	0	26	19
1	1	0	26	-25
3	1	0	42	-37
5	1	0	35	36
7	1	0	24	-17
9	1	0	14	-11
11	1	0	29	31
13	1	0	29	27
15	1	0	32	-30
17	1	0	21	22
0	2	0	288	-307
2	2	0	141	-151
6	2	0	76	-73
8	2	0	35	36
10	2	0	62	-60
14	2	0	71	-69
16	2	0	42	-39
18	2	0	29	-29
1	3	0	62	-60
3	3	0	204	208
5	3	0	193	-194
7	3	0	63	59
9	3	0	22	-21
11	3	0	68	-65
2	4	0	164	162
4	4	0	50	50
6	4	0	46	42
8	4	0	46	45
10	4	0	32	-29
14	4	0	56	56
18	4	0	23	21
1	5	0	16	16
3	5	0	147	-153
5	5	0	88	93
9	5	0	112	112
11	5	0	32	35
13	5	0	40	-43
15	5	0	24	24
17	5	0	35	-37
0	6	0	81	84
2	6	0	23	-19
4	6	0	62	-57
6	6	0	28	28
8	6	0	86	-84
12	6	0	55	54
14	6	0	49	-49
16	6	0	18	22
1	7	0	64	60
3	7	0	25	-31
5	7	0	39	35
7	7	0	144	-143
9	7	0	90	-91
11	7	0	39	41
15	7	0	26	24
0	8	0	80	70
2	8	0	67	-60
4	8	0	14	11
6	8	0	47	-48
8	8	0	87	82
10	8	0	29	-30
14	8	0	40	-43
1	9	0	82	-82
3	9	0	73	73
5	9	0	49	-50
7	9	0	101	103
9	9	0	68	67
11	9	0	45	-47
13	9	0	22	22
0	10	0	113	115
2	10	0	48	-49
4	10	0	116	114
6	10	0	64	-65
12	10	0	23	-20
14	10	0	54	59
5	11	0	24	-23
13	11	0	18	13
15	11	0	19	-17
0	12	0	90	87
2	12	0	140	-142
4	12	0	37	39
6	12	0	37	38
8	12	0	46	-50
10	12	0	42	42
14	12	0	24	-28
5	13	0	70	-73
7	13	0	29	29
9	13	0	56	-58
11	13	0	31	33
0	14	0	44	40
2	14	0	61	58
4	14	0	21	-22
6	14	0	18	-18
12	14	0	25	26
1	15	0	24	-23
3	15	0	27	28
5	15	0	42	42
9	15	0	54	53
0	16	0	19	-13
2	16	0	31	-33
4	16	0	27	29
6	16	0	18	-18
8	16	0	34	34
3	17	0	43	-44
7	17	0	57	-57
7	19	0	28	32
0	20	0	40	40
4	20	0	23	27
-18	0	1	52	53
-16	0	1	22	-22
-14	0	1	45	-43
-12	0	1	128	123
-6	0	1	121	115
-4	0	1	143	140
-2	0	1	90	88
0	0	1	53	-56
2	0	1	52	-53
4	0	1	19	-19
6	0	1	62	60
8	0	1	34	-33
10	0	1	75	75
12	0	1	103	99
14	0	1	67	-65
16	0	1	37	34
-15	1	1	28	27
-11	1	1	36	34
-9	1	1	16	17
-7	1	1	78	-75
-5	1	1	70	71
-3	1	1	91	-93
-1	1	1	82	84
1	1	1	192	206
3	1	1	115	-110
5	1	1	99	104
7	1	1	67	-63
11	1	1	70	70
13	1	1	47	-47
15	1	1	40	40
-18	2	1	32	-31
-12	2	1	23	-24
-10	2	1	67	-62
-8	2	1	19	11
-6	2	1	159	-161
-4	2	1	142	-144
-2	2	1	18	10
0	2	1	20	-18
2	2	1	71	71
6	2	1	94	-102
8	2	1	51	50
10	2	1	132	-124
12	2	1	16	-9
-19	3	1	27	28
-17	3	1	61	-63
-13	3	1	90	-91
-11	3	1	40	-39
-9	3	1	25	24
-7	3	1	19	20
-1	3	1	117	-116
1	3	1	229	-228
3	3	1	25	25
5	3	1	52	-56
7	3	1	47	46
9	3	1	52	47
11	3	1	114	-113
13	3	1	55	53
15	3	1	58	-56
17	3	1	33	-30
-12	4	1	42	-44
-10	4	1	36	37
-8	4	1	139	135
-6	4	1	51	47
-4	4	1	144	143
-2	4	1	86	-88
0	4	1	32	31
2	4	1	63	-64
4	4	1	132	132
6	4	1	103	-99
8	4	1	103	99
10	4	1	23	22
12	4	1	25	-24
14	4	1	24	23
16	4	1	43	-41
-19	5	1	27	-26
-17	5	1	70	73
-15	5	1	22	-21
-13	5	1	122	120
-11	5	1	53	53
-9	5	1	67	-66
-7	5	1	26	27
-5	5	1	91	-98
-3	5	1	164	158
-1	5	1	21	-20
1	5	1	181	185
3	5	1	75	69
5	5	1	79	77
9	5	1	79	-78
11	5	1	54	56
15	5	1	35	35
-16	6	1	19	-12
-14	6	1	23	-24
-12	6	1	42	42
-10	6	1	52	-49
-6	6	1	130	-125
-4	6	1	42	46
-2	6	1	132	-133
0	6	1	167	168
2	6	1	113	-117
4	6	1	62	-55
6	6	1	64	65
8	6	1	121	-126
10	6	1	91	95
12	6	1	19	-16
16	6	1	39	36
-15	7	1	40	-35
-13	7	1	73	-74
-11	7	1	23	23
-9	7	1	49	-50
-7	7	1	80	83
-5	7	1	37	-35
-3	7	1	64	-63
1	7	1	22	16
3	7	1	149	-149
5	7	1	50	-51
9	7	1	16	17
11	7	1	28	28
13	7	1	28	-30
15	7	1	49	-50
-18	8	1	36	-35
-14	8	1	42	42
-12	8	1	29	-29
-10	8	1	70	72
-8	8	1	94	-93
-4	8	1	19	17
-2	8	1	19	14

OBSERVED AND CALCULATED STRUCTURE FACTORS FOR CLINOPTILOLITE DEHYD2 FROM WEITENDORF

H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC
0	8	1	27	29	8	12	1	33	-32	-2	18	1	22	-20	10	2	2	66	65	-2	6	2	51	55
2	8	1	41	-39	10	12	1	49	-50	0	18	1	44	43	14	2	2	21	17	0	6	2	47	43
4	8	1	102	100	14	12	1	35	-34	2	18	1	51	-45	-17	3	2	48	-48	2	6	2	32	30
6	8	1	95	-96	-13	13	1	29	-31	4	18	1	36	34	-15	3	2	40	42	4	6	2	30	32
8	8	1	22	21	-11	13	1	33	36	6	18	1	16	-13	-11	3	2	32	-33	6	6	2	22	-22
10	8	1	67	-67	-9	13	1	38	-39	-1	19	1	57	53	-9	3	2	72	74	8	6	2	30	29
14	8	1	25	25	-7	13	1	43	-46	3	19	1	27	25	-7	3	2	31	-37	12	6	2	51	52
16	8	1	25	-26	-5	13	1	50	49	5	19	1	15	12	-5	3	2	42	-37	14	6	2	44	-44
-17	9	1	29	-29	-3	13	1	78	-76	-20	0	2	25	-22	-3	3	2	41	-42	-19	7	2	16	-10
-15	9	1	61	62	-1	13	1	38	37	-16	0	2	60	63	-1	3	2	156	-161	-17	7	2	42	-43
-9	9	1	40	38	1	13	1	20	-18	-14	0	2	67	69	1	3	2	108	114	-13	7	2	46	49
-7	9	1	60	-59	3	13	1	39	-40	-12	0	2	94	96	3	3	2	31	28	-11	7	2	23	20
-3	9	1	16	13	5	13	1	33	31	-10	0	2	95	95	5	3	2	42	45	-9	7	2	21	-20
-1	9	1	35	-36	7	13	1	51	-50	-8	0	2	44	-47	7	3	2	72	-71	-7	7	2	149	-151
1	9	1	41	44	9	13	1	25	21	-6	0	2	99	92	11	3	2	87	-89	-5	7	2	33	-36
3	9	1	99	97	-10	14	1	21	19	-4	0	2	215	-220	-16	4	2	39	39	-3	7	2	56	-59
11	9	1	37	-35	-8	14	1	35	32	-2	0	2	102	98	-14	4	2	25	-21	-1	7	2	16	-8
13	9	1	41	41	-6	14	1	17	13	0	0	2	178	174	-12	4	2	75	75	1	7	2	22	22
-16	10	1	22	-23	-4	14	1	68	71	2	0	2	76	71	-10	4	2	17	15	3	7	2	39	-42
-14	10	1	18	-19	2	14	1	24	-23	4	0	2	23	24	-8	4	2	59	58	5	7	2	67	68
-10	10	1	59	-60	4	14	1	29	28	8	0	2	42	-41	-6	4	2	55	-63	7	7	2	121	-121
-8	10	1	159	162	8	14	1	52	52	10	0	2	24	19	-4	4	2	33	-31	9	7	2	30	-32
-6	10	1	22	-20	10	14	1	16	14	16	0	2	53	52	-2	4	2	14	8	11	7	2	41	-37
-4	10	1	59	59	12	14	1	25	27	-17	1	2	30	29	0	4	2	32	-31	13	7	2	43	-43
-2	10	1	25	24	-9	15	1	24	25	-15	1	2	37	-37	2	4	2	29	-22	-16	8	2	22	-18
0	10	1	129	-130	-5	15	1	46	-47	-11	1	2	41	40	4	4	2	51	49	-12	8	2	91	-92
2	10	1	61	62	-3	15	1	62	59	-9	1	2	99	-104	6	4	2	15	-7	-10	8	2	22	22
4	10	1	40	-40	-1	15	1	28	-28	-7	1	2	83	87	8	4	2	61	62	-6	8	2	29	-28
6	10	1	33	31	1	15	1	76	77	-5	1	2	117	-114	10	4	2	115	-116	-4	8	2	26	26
8	10	1	89	92	3	15	1	29	27	-3	1	2	124	131	12	4	2	18	18	-2	8	2	109	-111
12	10	1	39	40	7	15	1	29	29	-1	1	2	52	54	-19	5	2	27	28	2	8	2	56	-57
-9	11	1	31	31	11	15	1	19	-17	1	1	2	91	-87	-17	5	2	28	25	4	8	2	67	-68
-7	11	1	21	-11	-12	16	1	24	-24	3	1	2	36	34	-13	5	2	50	-50	6	8	2	36	-35
-5	11	1	49	48	-8	16	1	20	19	5	1	2	66	-62	-9	5	2	33	-31	-15	9	2	24	21
1	11	1	27	27	-6	16	1	64	-64	7	1	2	62	61	-7	5	2	136	135	-13	9	2	40	-43
3	11	1	86	-87	-4	16	1	42	40	9	1	2	25	-24	-3	5	2	55	56	-11	9	2	30	-28
5	11	1	77	81	-2	16	1	55	-53	11	1	2	37	35	-1	5	2	65	66	-9	9	2	67	65
7	11	1	17	-14	0	16	1	21	19	-20	2	2	19	20	3	5	2	59	-60	-7	9	2	39	39
13	11	1	42	-45	8	16	1	24	-24	-16	2	2	65	-66	5	5	2	34	32	-5	9	2	38	39
-14	12	1	23	-25	-9	17	1	27	-30	-12	2	2	138	-141	9	5	2	94	93	-3	9	2	93	97
-12	12	1	56	60	-7	17	1	47	48	-8	2	2	21	-18	11	5	2	45	43	-1	9	2	23	-24
-10	12	1	53	-51	-5	17	1	39	-38	-6	2	2	35	-38	13	5	2	24	22	1	9	2	21	22
-8	12	1	33	-31	-3	17	1	26	24	-4	2	2	218	218	15	5	2	19	10	7	9	2	85	87
-6	12	1	41	-39	-1	17	1	58	-59	-2	2	2	218	-220	-14	6	2	48	-45	9	9	2	24	23
-4	12	1	93	-94	1	17	1	27	-29	0	2	2	22	20	-12	6	2	131	128	13	9	2	35	35
0	12	1	65	62	3	17	1	22	-20	2	2	2	75	-87	-10	6	2	116	-113	-14	10	2	37	36
4	12	1	13	14	7	17	1	21	21	4	2	2	20	-25	-8	6	2	51	52	-10	10	2	73	76
6	12	1	78	-81	-6	18	1	23	21	8	2	2	26	-26	-4	6	2	29	23	-4	10	2	22	20

OBSERVED AND CALCULATED STRUCTURE FACTORS FOR CLINOPTILOLITE DEHYD2 FROM WEITENDORF

H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC
-2	10	2	20	-18	-5	15	2	40	39	-11	1	3	26	24	-4	4	3	34	-28	-10	8	3	43	-41
0	10	2	40	43	-3	15	2	48	47	-7	1	3	23	21	-2	4	3	50	-50	-8	8	3	45	43
2	10	2	81	79	-1	15	2	36	-36	-5	1	3	18	23	0	4	3	38	-35	-6	8	3	125	-127
4	10	2	58	59	3	15	2	15	-14	-3	1	3	22	19	2	4	3	22	19	-4	8	3	24	21
6	10	2	59	62	-10	16	2	36	-36	-1	1	3	29	-26	6	4	3	20	-20	-2	8	3	55	-56
10	10	2	16	-14	-8	16	2	25	24	1	1	3	87	85	10	4	3	25	24	0	8	3	38	-38
-17	11	2	30	31	-6	16	2	15	12	3	1	3	42	-42	12	4	3	26	26	2	8	3	39	38
-15	11	2	31	-32	-4	16	2	20	-15	5	1	3	84	87	-15	5	3	24	24	4	8	3	52	-51
-11	11	2	43	45	-2	16	2	19	18	7	1	3	77	-78	-13	5	3	60	60	6	8	3	45	45
-9	11	2	121	-121	0	16	2	74	-75	9	1	3	59	61	-11	5	3	126	128	8	8	3	18	-18
-7	11	2	134	137	2	16	2	28	26	-20	2	3	42	-43	-7	5	3	70	73	10	8	3	28	-29
-5	11	2	138	-140	4	16	2	23	-21	-18	2	3	28	-29	-3	5	3	27	-25	-15	9	3	32	34
-3	11	2	30	29	6	16	2	26	-25	-14	2	3	17	-16	-1	5	3	105	102	-11	9	3	69	69
-1	11	2	36	-36	8	16	2	42	42	-12	2	3	48	46	1	5	3	37	-37	-9	9	3	50	51
1	11	2	54	-52	-9	17	2	16	-15	-10	2	3	27	28	3	5	3	164	165	-7	9	3	14	11
3	11	2	88	89	-7	17	2	20	-18	-8	2	3	83	79	5	5	3	30	30	-5	9	3	26	23
5	11	2	78	-78	-5	17	2	27	-28	-6	2	3	81	-85	7	5	3	39	38	-3	9	3	17	12
9	11	2	36	-35	-3	17	2	41	-39	-4	2	3	21	-24	11	5	3	31	-26	-1	9	3	110	-112
-16	12	2	19	-22	5	17	2	31	32	-2	2	3	50	-56	-18	6	3	26	25	1	9	3	144	147
-14	12	2	34	-32	7	17	2	32	-31	0	2	3	25	21	-16	6	3	56	-54	5	9	3	68	74
-10	12	2	31	-27	-10	18	2	19	-20	2	2	3	51	52	-14	6	3	85	85	7	9	3	19	19
-8	12	2	51	-52	-8	18	2	17	16	4	2	3	18	17	-12	6	3	62	-65	9	9	3	23	-22
-6	12	2	40	38	2	18	2	24	-21	6	2	3	58	63	-10	6	3	63	61	-16	10	3	41	43
2	12	2	142	-146	-7	19	2	21	18	8	2	3	19	-17	-8	6	3	61	-63	-14	10	3	29	-27
6	12	2	34	-33	-5	19	2	26	29	10	2	3	65	-65	-6	6	3	24	25	-8	10	3	16	13
8	12	2	27	-29	-3	19	2	15	13	12	2	3	21	-24	-4	6	3	18	-22	-6	10	3	74	75
10	12	2	44	43	3	19	2	31	-30	14	2	3	31	-27	-2	6	3	53	49	-4	10	3	55	54
-13	13	2	21	18	0	20	2	16	13	-19	3	3	19	-20	0	6	3	100	104	-2	10	3	25	23
-11	13	2	13	-5	-20	0	3	36	39	-17	3	3	29	27	2	6	3	133	-129	0	10	3	35	34
-5	13	2	43	-45	-18	0	3	41	42	-15	3	3	46	-46	4	6	3	101	108	2	10	3	18	-13
-3	13	2	18	20	-16	0	3	32	28	-13	3	3	94	-95	6	6	3	54	-53	4	10	3	34	34
1	13	2	35	35	-14	0	3	44	-44	-11	3	3	31	-30	10	6	3	46	43	6	10	3	23	-23
3	13	2	29	-28	-12	0	3	78	76	-7	3	3	38	-37	12	6	3	47	-47	8	10	3	43	39
5	13	2	31	32	-10	0	3	187	-188	-5	3	3	22	-20	-17	7	3	30	29	-17	11	3	31	-34
7	13	2	26	-25	-6	0	3	31	-23	-3	3	3	27	30	-15	7	3	46	-42	-15	11	3	31	31
9	13	2	18	14	-4	0	3	20	12	-1	3	3	106	-109	-11	7	3	92	-95	-13	11	3	52	-53
-14	14	2	50	54	-2	0	3	184	186	1	3	3	16	17	-9	7	3	98	-99	-11	11	3	19	18
-10	14	2	38	37	0	0	3	82	-79	3	3	3	123	-124	-7	7	3	53	51	-7	11	3	30	-30
-8	14	2	24	24	2	0	3	72	-75	5	3	3	53	-54	-5	7	3	94	-92	-5	11	3	36	32
-6	14	2	64	-65	4	0	3	21	19	7	3	3	50	51	-3	7	3	99	99	-3	11	3	48	-50
-4	14	2	60	60	6	0	3	116	-121	9	3	3	79	-80	-1	7	3	48	-50	-1	11	3	54	55
-2	14	2	71	-72	8	0	3	86	81	11	3	3	23	20	1	7	3	36	-38	1	11	3	42	-43
0	14	2	97	98	10	0	3	41	40	-20	4	3	23	24	3	7	3	75	-80	3	11	3	65	-68
2	14	2	25	24	12	0	3	42	39	-16	4	3	18	16	5	7	3	100	-104	5	11	3	51	51
4	14	2	27	26	14	0	3	30	29	-12	4	3	75	-77	7	7	3	17	-18	7	11	3	58	-58
6	14	2	16	19	-19	1	3	28	29	-10	4	3	23	25	11	7	3	24	21	9	11	3	42	43
-13	15	2	23	-22	-17	1	3	41	-43	-8	4	3	71	-72	-14	8	3	24	-26	11	11	3	34	-33
-9	15	2	34	32	-15	1	3	56	59	-6	4	3	128	125	-12	8	3	46	50	-16	12	3	20	-22

OBSERVED AND CALCULATED STRUCTURE FACTORS FOR CLINOPTILOLITE DEHYD2 FROM WEITENDORF

H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC
-14	12	3	22	-18	-5	19	3	45	-46	-7	3	4	47	45	-1	7	4	53	-51	-1	11	4	55	-56
-12	12	3	59	60	-3	19	3	28	29	-5	3	4	19	15	1	7	4	53	-53	3	11	4	17	15
-10	12	3	72	-72	-20	0	4	21	-22	-3	3	4	130	-130	3	7	4	16	14	7	11	4	21	-23
-8	12	3	17	15	-18	0	4	45	44	-1	3	4	80	-79	9	7	4	18	21	-16	12	4	30	-27
-6	12	3	29	-26	-16	0	4	112	-110	3	3	4	17	16	11	7	4	33	-34	-14	12	4	23	24
-4	12	3	141	-143	-14	0	4	159	166	5	3	4	24	27	-18	8	4	15	-17	-12	12	4	54	-52
-2	12	3	37	36	-12	0	4	22	-25	7	3	4	25	21	-16	8	4	32	30	-10	12	4	58	-56
0	12	3	77	-80	-10	0	4	52	52	9	3	4	48	-48	-14	8	4	50	-48	-8	12	4	24	-20
2	12	3	18	20	-8	0	4	123	126	-16	4	4	18	18	-10	8	4	52	-51	-6	12	4	47	-49
4	12	3	29	28	-6	0	4	83	-79	-14	4	4	73	-73	-8	8	4	55	-58	-4	12	4	44	42
6	12	3	41	-37	-4	0	4	103	100	-12	4	4	51	49	-6	8	4	21	19	-2	12	4	18	16
10	12	3	28	-27	-2	0	4	43	-48	-10	4	4	50	52	-4	8	4	30	-29	0	12	4	21	20
-13	13	3	28	27	0	0	4	44	43	-8	4	4	37	35	-2	8	4	41	41	2	12	4	48	-52
-11	13	3	26	-23	4	0	4	103	101	-6	4	4	22	-21	0	8	4	52	-53	6	12	4	45	-48
-5	13	3	14	-5	6	0	4	55	57	-4	4	4	24	-23	2	8	4	35	37	-11	13	4	19	22
-3	13	3	49	47	10	0	4	57	60	-2	4	4	15	-15	4	8	4	43	-44	-9	13	4	42	-43
-1	13	3	22	-19	12	0	4	50	-50	2	4	4	36	35	6	8	4	18	-14	-7	13	4	66	68
1	13	3	23	27	-17	1	4	28	27	6	4	4	85	90	10	8	4	37	-36	-5	13	4	68	-70
3	13	3	28	-28	-15	1	4	27	-25	10	4	4	23	-20	-17	9	4	52	53	-3	13	4	41	42
5	13	3	15	-1	-13	1	4	50	51	-19	5	4	81	85	-15	9	4	23	26	1	13	4	50	-51
-14	14	3	15	17	-11	1	4	43	-41	-15	5	4	58	62	-13	9	4	44	-44	3	13	4	34	34
-8	14	3	15	14	-9	1	4	26	-26	-13	5	4	19	17	-11	9	4	68	70	5	13	4	27	-28
-4	14	3	78	75	-7	1	4	46	47	-11	5	4	78	-78	-9	9	4	32	-29	-12	14	4	22	24
-2	14	3	34	34	-5	1	4	95	-95	-9	5	4	34	34	-7	9	4	31	31	-10	14	4	43	43
4	14	3	28	-29	-3	1	4	106	108	-7	5	4	40	-40	-5	9	4	37	35	-6	14	4	32	33
-11	15	3	38	37	-1	1	4	20	19	-5	5	4	76	77	-3	9	4	40	37	-4	14	4	27	-25
-3	15	3	14	-7	1	1	4	29	-27	-3	5	4	63	61	-1	9	4	42	42	2	14	4	21	25
-1	15	3	36	-35	5	1	4	30	-28	-1	5	4	58	56	1	9	4	40	36	-13	15	4	25	-27
1	15	3	32	33	9	1	4	30	29	1	5	4	54	56	3	9	4	26	-25	-7	15	4	25	-25
3	15	3	20	19	-20	2	4	20	24	3	5	4	70	-73	7	9	4	28	28	-5	15	4	40	40
7	15	3	39	39	-18	2	4	18	-19	5	5	4	59	60	9	9	4	18	-22	1	15	4	50	50
-12	16	3	35	-36	-16	2	4	45	44	7	5	4	68	-71	-16	10	4	17	-14	3	15	4	33	-35
-10	16	3	54	55	-14	2	4	35	-35	9	5	4	47	50	-14	10	4	34	35	5	15	4	20	16
-8	16	3	40	-42	-12	2	4	72	-71	11	5	4	24	23	-12	10	4	27	-26	-12	16	4	18	-10
-4	16	3	18	-21	-8	2	4	135	-140	-18	6	4	39	39	-10	10	4	139	142	-4	16	4	20	20
-2	16	3	53	-51	-6	2	4	72	69	-16	6	4	37	-36	-6	10	4	24	27	-2	16	4	19	-15
0	16	3	32	30	-2	2	4	31	-31	-14	6	4	65	68	-4	10	4	38	38	2	16	4	16	20
2	16	3	33	-34	0	2	4	28	29	-12	6	4	20	20	-2	10	4	119	-121	4	16	4	32	-31
4	16	3	31	30	2	2	4	45	-45	-10	6	4	55	-55	0	10	4	94	98	-9	17	4	20	25
-9	17	3	39	-43	4	2	4	49	-48	-8	6	4	49	49	2	10	4	30	-31	-7	17	4	22	-21
-7	17	3	42	43	6	2	4	66	-71	-2	6	4	83	81	4	10	4	47	48	-3	17	4	39	-40
-3	17	3	22	23	8	2	4	23	-27	0	6	4	62	-61	6	10	4	53	55	-1	17	4	27	-26
1	17	3	27	-26	10	2	4	25	-26	2	6	4	23	25	-15	11	4	38	-39	-4	18	4	37	-38
5	17	3	29	-29	12	2	4	23	20	6	6	4	50	-51	-13	11	4	30	29	-2	18	4	45	46
-10	18	3	18	-19	-19	3	4	75	-72	8	6	4	24	21	-11	11	4	33	-34	-20	0	5	29	-27
0	18	3	16	18	-13	3	4	82	-89	-17	7	4	68	-71	-9	11	4	22	-17	-18	0	5	87	86
2	18	3	27	-26	-11	3	4	128	134	-5	7	4	86	-86	-7	11	4	25	24	-14	0	5	63	60
-7	19	3	27	26	-9	3	4	58	-54	-3	7	4	38	-38	-5	11	4	44	-43	-12	0	5	42	42

OBSERVED AND CALCULATED STRUCTURE FACTORS FOR CLINOPTILOLITE DEHYD2 FROM WEITENDORF

H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC
-10	0	5	149	-153	-8	4	5	45	-46	-11	9	5	57	56	-10	0	6	94	97	-12	6	6	17	14
-8	0	5	99	97	-6	4	5	45	48	-9	9	5	37	38	-8	0	6	48	48	-10	6	6	42	-44
-6	0	5	66	-64	-4	4	5	70	70	-5	9	5	84	86	-6	0	6	74	75	-8	6	6	19	17
-4	0	5	40	38	-2	4	5	48	-48	-3	9	5	90	-93	-4	0	6	57	57	-4	6	6	32	-35
-2	0	5	195	193	0	4	5	105	106	1	9	5	17	18	-2	0	6	44	43	-2	6	6	74	73
0	0	5	44	-44	6	4	5	23	25	5	9	5	45	48	0	0	6	54	-54	0	6	6	90	-89
2	0	5	131	131	8	4	5	35	-39	-16	10	5	38	44	4	0	6	37	34	2	6	6	46	48
4	0	5	35	-36	-19	5	5	24	-17	-14	10	5	22	-25	6	0	6	17	18	6	6	6	35	-36
6	0	5	33	-35	-17	5	5	27	24	-12	10	5	42	42	-15	1	6	17	19	-17	7	6	47	-49
8	0	5	47	48	-15	5	5	40	-39	-10	10	5	18	-18	-9	1	6	54	-57	-15	7	6	21	-18
-19	1	5	21	26	-13	5	5	47	46	-8	10	5	32	-35	-7	1	6	60	62	-13	7	6	21	-23
-17	1	5	20	-24	-11	5	5	51	53	-6	10	5	34	32	-5	1	6	71	-75	-11	7	6	56	-51
-13	1	5	51	50	-9	5	5	22	22	-4	10	5	17	-20	-3	1	6	58	61	-9	7	6	50	47
-11	1	5	52	-52	-7	5	5	155	157	-2	10	5	53	54	1	1	6	15	-12	-5	7	6	18	13
-9	1	5	62	61	-5	5	5	96	-96	2	10	5	44	45	3	1	6	41	42	-1	7	6	57	-56
-7	1	5	18	-18	-3	5	5	111	108	4	10	5	18	-20	5	1	6	41	-41	1	7	6	17	-17
-5	1	5	28	30	-1	5	5	101	-100	-11	11	5	30	-24	-18	2	6	18	14	3	7	6	35	-34
-3	1	5	25	26	1	5	5	25	24	-9	11	5	33	31	-14	2	6	21	17	-18	8	6	33	30
-1	1	5	27	-26	3	5	5	40	40	-7	11	5	32	-31	-12	2	6	25	-25	-16	8	6	26	-24
9	1	5	20	15	7	5	5	61	61	-3	11	5	28	29	-10	2	6	43	-45	-14	8	6	25	22
-18	2	5	43	-42	-16	6	5	30	-25	1	11	5	33	30	-8	2	6	71	-70	-10	8	6	29	-26
-16	2	5	26	-24	-14	6	5	42	39	3	11	5	23	-25	-6	2	6	67	-65	-8	8	6	20	-18
-14	2	5	55	-55	-12	6	5	32	-32	-16	12	5	45	-46	-4	2	6	21	-23	-6	8	6	35	-34
-10	2	5	79	81	-10	6	5	41	-42	-10	12	5	22	-24	-2	2	6	49	-49	-2	8	6	19	-19
-8	2	5	50	-52	-8	6	5	37	36	-8	12	5	50	49	0	2	6	41	39	0	8	6	23	20
-6	2	5	60	62	-6	6	5	64	-66	-6	12	5	18	-13	4	2	6	29	-33	-17	9	6	43	43
-4	2	5	103	-104	-2	6	5	25	27	-4	12	5	34	-32	-15	3	6	74	-73	-13	9	6	21	19
-2	2	5	56	-54	0	6	5	51	-53	0	12	5	87	-84	-9	3	6	36	38	-11	9	6	41	43
0	2	5	49	-52	6	6	5	22	-19	-15	13	5	33	37	-5	3	6	60	59	-9	9	6	37	-39
2	2	5	78	-78	-11	7	5	71	-72	-11	13	5	20	-22	-3	3	6	62	-64	-1	9	6	36	33
4	2	5	19	15	-9	7	5	82	-81	-7	13	5	31	-30	-1	3	6	35	-32	1	9	6	38	37
-15	3	5	30	30	-7	7	5	26	-25	-14	14	5	19	19	3	3	6	70	-67	3	9	6	15	-17
-13	3	5	106	-111	-5	7	5	68	-66	-8	14	5	38	-36	5	3	6	56	54	-14	10	6	25	-26
-11	3	5	45	49	-3	7	5	82	79	-6	14	5	28	28	-10	4	6	52	59	-10	10	6	58	57
-9	3	5	68	-66	1	7	5	26	-26	-2	14	5	28	29	-8	4	6	29	27	-6	10	6	59	62
-7	3	5	83	-84	5	7	5	52	-56	0	14	5	39	38	-6	4	6	48	47	0	10	6	15	7
-5	3	5	33	34	7	7	5	23	-24	-11	15	5	41	41	0	4	6	16	18	-13	11	6	29	-26
-3	3	5	87	-89	-16	8	5	29	-32	-7	15	5	39	39	6	4	6	19	23	-11	11	6	26	27
-1	3	5	47	49	-14	8	5	17	14	-1	15	5	25	-22	-19	5	6	17	17	-9	11	6	32	-34
1	3	5	42	43	-12	8	5	40	-38	1	15	5	20	20	-15	5	6	75	75	-7	11	6	44	47
3	3	5	74	-75	-10	8	5	72	72	-10	16	5	22	19	-7	5	6	63	-65	-5	11	6	27	-25
5	3	5	24	24	-8	8	5	24	-23	-2	16	5	41	-42	-5	5	6	26	26	1	11	6	23	-25
7	3	5	43	-45	-6	8	5	38	39	0	16	5	15	14	-1	5	6	66	64	-14	12	6	67	66
9	3	5	23	-24	-2	8	5	48	-46	-5	17	5	45	-43	1	5	6	18	15	-12	12	6	64	-66
-16	4	5	22	20	0	8	5	44	46	-20	0	6	83	83	3	5	6	33	33	-8	12	6	41	-40
-14	4	5	30	30	2	8	5	55	-52	-18	0	6	21	-25	-18	6	6	19	-18	-6	12	6	49	-50
-12	4	5	16	-14	4	8	5	25	23	-14	0	6	53	51	-16	6	6	25	27	-4	12	6	17	17
-10	4	5	40	39	-13	9	5	20	-24	-12	0	6	41	-38	-14	6	6	17	-7	-2	12	6	20	-13

OBSERVED AND CALCULATED STRUCTURE FACTORS FOR CLINOPTILOLITE DEHYD2 FROM WEITENDORF

H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC
-13	13	6	25	24	-5	1	7	51	53	0	4	7	44	42	-6	8	7	29	27	-8	2	8	29	-26
-11	13	6	45	-43	3	1	7	23	-20	-13	5	7	19	-23	-4	8	7	28	-31	-4	2	8	46	-47
-3	13	6	24	24	-16	2	7	30	-25	-9	5	7	46	44	0	8	7	21	-22	-15	3	8	20	-16
-1	13	6	26	-24	-14	2	7	74	-78	-7	5	7	34	36	-15	9	7	37	-36	-13	3	8	17	-20
-8	14	6	25	27	-12	2	7	20	24	-5	5	7	56	53	-7	9	7	47	48	-9	3	8	36	-38
-6	14	6	16	17	-10	2	7	58	-60	-16	6	7	18	-19	-12	10	7	41	42	-7	3	8	31	33
-16	0	7	47	48	-8	2	7	36	35	-14	6	7	53	50	-4	10	7	20	-17	-6	4	8	27	28
-14	0	7	69	66	-4	2	7	22	-20	-12	6	7	89	-86	-2	10	7	23	22	-4	4	8	20	-21
-10	0	7	44	44	0	2	7	57	-57	-10	6	7	51	51	-9	11	7	44	42	-2	4	8	36	37
-8	0	7	37	-37	2	2	7	18	-13	-8	6	7	29	-30	-7	11	7	56	-57	-13	5	8	36	34
-2	0	7	18	19	-17	3	7	33	29	-4	6	7	47	46	-5	11	7	33	33	-9	5	8	54	51
0	0	7	30	30	-15	3	7	47	-46	-2	6	7	42	-37	-3	11	7	21	-19	-7	5	8	49	-46
2	0	7	45	43	-13	3	7	38	34	0	6	7	21	20	-12	0	8	55	-54	-8	6	8	15	15
-17	1	7	29	-31	-9	3	7	59	-57	-13	7	7	20	21	-10	0	8	33	33	-4	6	8	26	29
-15	1	7	32	37	-5	3	7	80	-82	-9	7	7	34	-38	-4	0	8	99	100	-11	7	8	28	-24
-13	1	7	17	-18	-18	4	7	16	5	-7	7	7	25	-26	-2	0	8	34	-35	-7	7	8	18	-14
-11	1	7	17	-14	-14	4	7	42	42	-5	7	7	60	-58	-13	1	8	19	14	-5	7	8	43	40
-9	1	7	46	44	-10	4	7	38	36	-14	8	7	28	-29	-14	2	8	21	20	-8	8	8	34	-35
-7	1	7	35	-33	-8	4	7	32	-30	-10	8	7	22	-23										

OBSERVED AND CALCULATED STRUCTURE FACTORS FOR CLINOPTILOLITE DEHYD3 FROM WEITENDORF

H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC
2	0	0	271	-280	4	6	0	59	-55	2	14	0	53	52	-14	2	1	19	8	-13	5	1	114	114
4	0	0	230	222	6	6	0	24	25	4	14	0	18	-21	-12	2	1	17	-21	-11	5	1	52	52
6	0	0	44	-42	8	6	0	76	-74	6	14	0	18	-18	-10	2	1	69	-65	-9	5	1	67	-64
8	0	0	53	-57	12	6	0	56	53	12	14	0	23	25	-8	2	1	18	12	-7	5	1	34	32
10	0	0	133	132	14	6	0	47	-47	1	15	0	20	-19	-6	2	1	159	-160	-5	5	1	91	-98
12	0	0	16	-5	1	7	0	62	60	3	15	0	27	26	-4	2	1	142	-144	-3	5	1	166	161
14	0	0	72	67	3	7	0	24	-28	5	15	0	37	37	-2	2	1	17	9	-1	5	1	22	-20
16	0	0	59	58	5	7	0	40	36	9	15	0	48	46	0	2	1	20	-17	1	5	1	174	178
18	0	0	21	15	7	7	0	141	-139	0	16	0	19	-15	2	2	1	69	68	3	5	1	71	70
1	1	0	24	-24	9	7	0	92	-91	2	16	0	29	-31	6	2	1	94	-101	5	5	1	73	74
3	1	0	36	-31	11	7	0	38	41	4	16	0	29	30	8	2	1	55	52	7	5	1	12	11
5	1	0	36	36	15	7	0	27	24	8	16	0	37	36	10	2	1	128	-122	9	5	1	74	-73
7	1	0	22	-16	0	8	0	78	69	3	17	0	39	-39	14	2	1	15	14	11	5	1	50	51
9	1	0	15	-14	2	8	0	66	-61	7	17	0	51	-51	-19	3	1	28	27	13	5	1	14	8
11	1	0	26	28	4	8	0	15	13	7	19	0	23	29	-17	3	1	64	-62	15	5	1	33	32
13	1	0	27	26	6	8	0	47	-47	0	20	0	35	36	-13	3	1	88	-88	-14	6	1	23	-23
15	1	0	29	-28	8	8	0	81	77	4	20	0	23	24	-11	3	1	38	-37	-12	6	1	47	46
17	1	0	24	21	10	8	0	28	-30	-18	0	1	51	51	-9	3	1	22	22	-10	6	1	52	-50
0	2	0	294	-309	12	8	0	15	12	-16	0	1	21	-19	-7	3	1	23	22	-6	6	1	130	-123
2	2	0	148	-157	14	8	0	38	-40	-14	0	1	43	-43	-3	3	1	17	9	-4	6	1	43	45
6	2	0	73	-71	1	9	0	79	-81	-12	0	1	123	120	-1	3	1	116	-114	-2	6	1	128	-130
8	2	0	37	40	3	9	0	71	71	-8	0	1	16	14	1	3	1	227	-229	0	6	1	166	166
10	2	0	62	-58	5	9	0	49	-48	-6	0	1	118	112	3	3	1	22	22	2	6	1	110	-114
14	2	0	70	-67	7	9	0	100	102	-4	0	1	143	140	5	3	1	56	-57	4	6	1	52	-46
16	2	0	36	-34	9	9	0	64	63	-2	0	1	85	86	7	3	1	49	47	6	6	1	64	66
18	2	0	30	-28	11	9	0	41	-45	0	0	1	55	-57	9	3	1	48	44	8	6	1	117	-123
1	3	0	64	-63	0	10	0	106	106	2	0	1	57	-59	11	3	1	108	-108	10	6	1	90	92
3	3	0	204	207	2	10	0	48	-49	4	0	1	18	-12	13	3	1	51	51	12	6	1	15	-15
5	3	0	188	-192	4	10	0	113	110	6	0	1	56	58	15	3	1	56	-53	16	6	1	38	36
7	3	0	62	59	6	10	0	61	-62	8	0	1	28	-27	17	3	1	29	-28	-15	7	1	38	-35
9	3	0	24	-23	8	10	0	19	16	10	0	1	73	75	-14	4	1	21	12	-13	7	1	70	-71
11	3	0	66	-63	12	10	0	17	-18	12	0	1	100	94	-12	4	1	42	-44	-11	7	1	23	22
0	4	0	25	-24	14	10	0	51	54	14	0	1	66	-64	-10	4	1	32	32	-9	7	1	51	-51
2	4	0	161	160	3	11	0	22	18	16	0	1	34	32	-8	4	1	139	133	-7	7	1	85	85
4	4	0	52	52	5	11	0	24	-25	-15	1	1	28	27	-6	4	1	48	46	-5	7	1	39	-37
6	4	0	40	37	13	11	0	17	15	-11	1	1	38	37	-4	4	1	144	142	-3	7	1	62	-59
8	4	0	50	48	0	12	0	85	83	-7	1	1	72	-71	-2	4	1	87	-88	1	7	1	20	15
10	4	0	37	-34	2	12	0	139	-139	-5	1	1	71	71	0	4	1	30	28	3	7	1	149	-152
14	4	0	53	55	4	12	0	39	40	-3	1	1	89	-88	2	4	1	64	-66	5	7	1	46	-47
3	5	0	140	-146	6	12	0	31	34	-1	1	1	82	85	4	4	1	133	132	9	7	1	15	16
5	5	0	88	94	8	12	0	41	-45	1	1	1	191	205	6	4	1	101	-98	11	7	1	27	26
9	5	0	109	109	10	12	0	38	37	3	1	1	118	-114	8	4	1	102	101	13	7	1	28	-29
11	5	0	30	32	14	12	0	21	-26	5	1	1	99	106	10	4	1	19	18	15	7	1	46	-46
13	5	0	39	-41	5	13	0	65	-66	7	1	1	66	-64	12	4	1	21	-22	-18	8	1	33	-33
15	5	0	24	23	7	13	0	29	29	11	1	1	67	68	14	4	1	21	20	-14	8	1	37	38
17	5	0	32	-34	9	13	0	54	-54	13	1	1	48	-46	16	4	1	38	-37	-12	8	1	31	-29
0	6	0	77	77	11	13	0	28	30	15	1	1	42	41	-17	5	1	68	68	-10	8	1	65	68
2	6	0	23	-23	0	14	0	44	40	-18	2	1	31	-29	-15	5	1	16	-21	-8	8	1	91	-90

H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC
-6	8	1	19	14	-4	12	1	91	-88	7	17	1	22	18	2	2	2	76	-85	-16	6	2	18	14
-4	8	1	22	17	-2	12	1	14	9	-6	18	1	20	19	4	2	2	17	-24	-14	6	2	46	-45
-2	8	1	15	10	0	12	1	60	58	-2	18	1	23	-21	6	2	2	13	14	-12	6	2	125	124
0	8	1	29	32	2	12	1	16	-15	0	18	1	41	38	8	2	2	20	-24	-10	6	2	116	-114
2	8	1	47	-46	6	12	1	72	-77	2	18	1	46	-43	10	2	2	61	62	-8	6	2	51	51
4	8	1	101	97	8	12	1	27	-26	4	18	1	30	31	-17	3	2	48	-48	-4	6	2	30	24
6	8	1	91	-91	10	12	1	47	-48	-1	19	1	48	46	-15	3	2	43	42	-2	6	2	53	56
8	8	1	25	22	14	12	1	30	-30	3	19	1	24	22	-13	3	2	17	-18	0	6	2	49	44
10	8	1	62	-62	-13	13	1	26	-29	0	20	1	17	13	-11	3	2	28	-28	2	6	2	31	28
14	8	1	22	20	-11	13	1	36	35	-20	0	2	22	-19	-9	3	2	70	71	4	6	2	32	32
16	8	1	25	-23	-9	13	1	38	-39	-16	0	2	58	60	-7	3	2	29	-36	6	6	2	23	-22
-17	9	1	29	-29	-7	13	1	40	-42	-14	0	2	61	63	-5	3	2	41	-38	8	6	2	35	31
-15	9	1	61	61	-5	13	1	47	43	-12	0	2	95	96	-3	3	2	38	-40	12	6	2	49	50
-9	9	1	36	35	-3	13	1	75	-75	-10	0	2	94	94	-1	3	2	156	-160	14	6	2	41	-42
-7	9	1	59	-58	-1	13	1	38	37	-8	0	2	45	-47	1	3	2	104	111	-17	7	2	41	-40
-3	9	1	14	14	1	13	1	19	-16	-6	0	2	96	92	3	3	2	26	22	-13	7	2	43	45
-1	9	1	33	-34	3	13	1	38	-39	-4	0	2	211	-217	5	3	2	39	41	-11	7	2	26	24
1	9	1	42	42	5	13	1	32	29	-2	0	2	102	102	7	3	2	70	-68	-9	7	2	21	-21
3	9	1	94	92	7	13	1	49	-48	0	0	2	179	176	11	3	2	87	-85	-7	7	2	142	-143
11	9	1	35	-33	-8	14	1	27	28	2	0	2	72	70	-16	4	2	35	36	-5	7	2	33	-34
13	9	1	39	39	-6	14	1	15	13	4	0	2	19	19	-14	4	2	24	-18	-3	7	2	54	-57
-16	10	1	19	-20	-4	14	1	64	66	8	0	2	45	-45	-12	4	2	71	71	-1	7	2	14	-7
-10	10	1	57	-60	2	14	1	28	-25	10	0	2	24	20	-10	4	2	15	14	1	7	2	23	23
-8	10	1	155	156	4	14	1	29	29	16	0	2	54	52	-8	4	2	57	55	3	7	2	40	-43
-6	10	1	23	-23	8	14	1	50	49	-17	1	2	28	28	-6	4	2	52	-58	5	7	2	67	69
-4	10	1	58	58	12	14	1	26	27	-15	1	2	35	-36	-4	4	2	29	-28	7	7	2	121	-118
-2	10	1	24	22	-9	15	1	26	23	-13	1	2	18	14	-2	4	2	15	8	9	7	2	29	-31
0	10	1	125	-125	-7	15	1	15	19	-11	1	2	42	42	0	4	2	29	-29	11	7	2	35	-32
2	10	1	61	60	-5	15	1	41	-40	-9	1	2	98	-103	2	4	2	27	-20	13	7	2	43	-41
4	10	1	33	-34	-3	15	1	59	56	-7	1	2	81	87	4	4	2	57	52	-14	8	2	13	10
6	10	1	28	27	-1	15	1	27	-26	-5	1	2	118	-115	6	4	2	16	-10	-12	8	2	81	-84
8	10	1	90	92	1	15	1	68	69	-3	1	2	127	130	8	4	2	61	60	-10	8	2	19	19
12	10	1	37	38	3	15	1	25	23	-1	1	2	50	50	10	4	2	116	-116	-8	8	2	16	-11
-11	11	1	17	-17	11	15	1	16	-15	1	1	2	88	-84	12	4	2	17	19	-6	8	2	32	-31
-9	11	1	28	27	-12	16	1	21	-21	3	1	2	32	31	-19	5	2	31	28	-4	8	2	28	26
-7	11	1	19	-5	-6	16	1	61	-60	5	1	2	62	-58	-17	5	2	25	22	-2	8	2	108	-109
-5	11	1	50	47	-4	16	1	38	38	7	1	2	59	59	-13	5	2	56	-53	2	8	2	57	-57
-1	11	1	14	-4	-2	16	1	52	-50	9	1	2	25	-22	-11	5	2	14	6	4	8	2	64	-64
1	11	1	24	23	0	16	1	24	22	11	1	2	35	33	-9	5	2	33	-33	6	8	2	34	-34
3	11	1	83	-85	2	16	1	15	-12	-20	2	2	18	19	-7	5	2	132	134	-13	9	2	40	-41
5	11	1	76	78	-9	17	1	23	-28	-16	2	2	60	-62	-3	5	2	52	54	-11	9	2	30	-29
7	11	1	18	-12	-7	17	1	44	44	-12	2	2	133	-137	-1	5	2	63	65	-9	9	2	63	61
13	11	1	39	-42	-5	17	1	38	-38	-10	2	2	12	2	3	5	2	61	-62	-7	9	2	37	37
-14	12	1	24	-25	-3	17	1	26	25	-8	2	2	22	-19	5	5	2	33	32	-5	9	2	38	38
-12	12	1	55	59	-1	17	1	53	-55	-6	2	2	36	-38	9	5	2	91	89	-3	9	2	91	93
-10	12	1	55	-52	1	17	1	25	-26	-4	2	2	216	217	11	5	2	44	43	-1	9	2	28	-27
-8	12	1	30	-25	3	17	1	21	-18	-2	2	2	216	-216	13	5	2	22	20	1	9	2	20	20
-6	12	1	42	-39	5	17	1	17	-17	0	2	2	21	20	15	5	2	15	11	3	9	2	13	-6

H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC
5	9	2	14	-10	-4	14	2	54	55	-5	1	3	15	18	0	4	3	38	-35	-6	8	3	121	-121
7	9	2	79	82	-2	14	2	66	-67	-3	1	3	21	19	2	4	3	20	18	-4	8	3	25	23
9	9	2	24	24	0	14	2	94	95	-1	1	3	30	-26	4	4	3	14	-2	-2	8	3	51	-53
13	9	2	33	34	2	14	2	19	20	1	1	3	90	86	6	4	3	20	-19	0	8	3	36	-37
-14	10	2	34	33	4	14	2	28	26	3	1	3	41	-40	10	4	3	21	23	2	8	3	35	33
-10	10	2	71	72	-9	15	2	33	30	5	1	3	80	84	12	4	3	26	25	4	8	3	49	-51
-8	10	2	18	15	-5	15	2	38	36	7	1	3	72	-75	-15	5	3	24	23	6	8	3	39	40
-6	10	2	13	-10	-3	15	2	43	44	9	1	3	57	58	-13	5	3	57	57	8	8	3	21	-18
-4	10	2	23	25	-1	15	2	33	-34	-20	2	3	38	-41	-11	5	3	122	124	10	8	3	28	-26
-2	10	2	17	-18	1	15	2	14	14	-18	2	3	26	-28	-7	5	3	69	71	-15	9	3	31	33
0	10	2	42	44	3	15	2	14	-15	-16	2	3	14	-13	-3	5	3	25	-25	-11	9	3	65	67
2	10	2	74	76	-10	16	2	32	-33	-14	2	3	17	-15	-1	5	3	98	97	-9	9	3	49	48
4	10	2	55	54	-8	16	2	23	22	-12	2	3	44	43	1	5	3	33	-33	-5	9	3	22	18
6	10	2	58	61	-2	16	2	19	16	-10	2	3	27	27	3	5	3	159	164	-3	9	3	18	13
-17	11	2	23	28	0	16	2	70	-68	-8	2	3	81	78	5	5	3	29	27	-1	9	3	109	-110
-15	11	2	25	-27	2	16	2	24	23	-6	2	3	82	-85	7	5	3	36	36	1	9	3	139	144
-11	11	2	45	46	6	16	2	23	-23	-4	2	3	19	-21	9	5	3	18	19	5	9	3	66	71
-9	11	2	112	-112	8	16	2	39	40	-2	2	3	51	-56	11	5	3	29	-25	7	9	3	25	20
-7	11	2	131	131	-7	17	2	21	-16	0	2	3	26	22	-16	6	3	52	-52	9	9	3	24	-21
-5	11	2	135	-136	-3	17	2	36	-34	2	2	3	49	51	-14	6	3	80	82	-16	10	3	39	38
-3	11	2	32	30	5	17	2	27	28	4	2	3	16	16	-12	6	3	59	-61	-14	10	3	25	-24
-1	11	2	35	-35	7	17	2	29	-27	6	2	3	56	59	-10	6	3	63	63	-8	10	3	15	14
1	11	2	48	-46	2	18	2	20	-18	8	2	3	20	-18	-8	6	3	61	-62	-6	10	3	70	70
3	11	2	88	86	-5	19	2	26	25	10	2	3	66	-64	-6	6	3	27	26	-4	10	3	56	55
5	11	2	74	-72	3	19	2	29	-29	14	2	3	25	-25	-4	6	3	18	-21	-2	10	3	20	19
9	11	2	32	-32	-20	0	3	31	34	-17	3	3	28	25	-2	6	3	52	49	0	10	3	34	33
-14	12	2	33	-31	-18	0	3	44	43	-15	3	3	40	-42	0	6	3	100	101	2	10	3	14	-10
-12	12	2	17	-19	-16	0	3	30	25	-13	3	3	90	-93	2	6	3	126	-122	4	10	3	31	31
-10	12	2	27	-25	-14	0	3	38	-40	-11	3	3	29	-28	4	6	3	99	106	6	10	3	21	-22
-8	12	2	52	-53	-12	0	3	73	75	-9	3	3	15	-15	6	6	3	52	-50	8	10	3	40	38
-6	12	2	41	39	-10	0	3	181	-181	-7	3	3	38	-37	10	6	3	42	39	-17	11	3	29	-32
-2	12	2	18	-15	-6	0	3	26	-21	-5	3	3	20	-21	12	6	3	40	-43	-15	11	3	30	32
2	12	2	132	-137	-4	0	3	22	14	-3	3	3	29	32	-17	7	3	30	26	-13	11	3	51	-52
6	12	2	31	-32	-2	0	3	182	184	-1	3	3	108	-111	-15	7	3	43	-39	-11	11	3	19	17
8	12	2	23	-28	0	0	3	80	-79	1	3	3	15	18	-11	7	3	88	-91	-7	11	3	29	-30
10	12	2	40	40	2	0	3	74	-75	3	3	3	121	-123	-9	7	3	97	-96	-5	11	3	37	34
-13	13	2	19	15	4	0	3	24	20	5	3	3	48	-50	-7	7	3	53	52	-3	11	3	46	-45
-9	13	2	21	-17	6	0	3	114	-121	7	3	3	48	49	-5	7	3	93	-92	-1	11	3	49	51
-5	13	2	41	-43	8	0	3	86	80	9	3	3	71	-74	-3	7	3	92	96	1	11	3	37	-39
-1	13	2	15	17	10	0	3	39	38	11	3	3	19	19	-1	7	3	48	-47	3	11	3	63	-66
1	13	2	28	27	12	0	3	41	40	-20	4	3	20	25	1	7	3	36	-38	5	11	3	45	47
3	13	2	27	-28	14	0	3	28	27	-16	4	3	21	18	3	7	3	71	-77	7	11	3	53	-53
5	13	2	30	29	-19	1	3	29	30	-12	4	3	73	-75	5	7	3	95	-100	9	11	3	37	40
7	13	2	25	-23	-17	1	3	40	-43	-10	4	3	24	28	7	7	3	17	-16	11	11	3	29	-28
-14	14	2	49	49	-15	1	3	53	58	-8	4	3	69	-70	-14	8	3	25	-25	-16	12	3	22	-21
-10	14	2	33	33	-11	1	3	29	27	-6	4	3	125	123	-12	8	3	42	46	-14	12	3	19	-17
-8	14	2	24	21	-9	1	3	12	4	-4	4	3	31	-26	-10	8	3	40	-40	-12	12	3	55	56
-6	14	2	62	-61	-7	1	3	23	20	-2	4	3	49	-48	-8	8	3	42	40	-10	12	3	66	-66

H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC
-8	12	3	16	15	-4	0	4	95	90	-10	4	4	49	50	2	8	4	36	36	-7	13	4	63	63
-6	12	3	27	-25	-2	0	4	45	-47	-8	4	4	37	35	4	8	4	41	-42	-5	13	4	66	-67
-4	12	3	133	-136	0	0	4	44	42	-6	4	4	22	-20	6	8	4	17	-13	-3	13	4	40	42
-2	12	3	37	36	4	0	4	100	99	-4	4	4	27	-25	10	8	4	33	-32	1	13	4	45	-47
0	12	3	70	-74	6	0	4	51	52	-2	4	4	17	-15	-17	9	4	45	47	3	13	4	30	31
4	12	3	28	28	8	0	4	16	17	2	4	4	35	34	-15	9	4	26	25	5	13	4	27	-26
6	12	3	39	-37	10	0	4	51	55	6	4	4	79	86	-13	9	4	44	-44	-10	14	4	41	39
10	12	3	29	-27	12	0	4	46	-46	10	4	4	20	-19	-11	9	4	64	63	-6	14	4	31	29
-13	13	3	24	23	-17	1	4	27	24	-19	5	4	78	78	-9	9	4	33	-31	-4	14	4	26	-25
-9	13	3	18	-17	-15	1	4	26	-24	-15	5	4	55	58	-7	9	4	29	30	2	14	4	22	23
-5	13	3	18	-9	-13	1	4	50	51	-11	5	4	75	-72	-5	9	4	33	33	4	14	4	16	14
-3	13	3	43	41	-11	1	4	42	-41	-9	5	4	34	33	-3	9	4	41	39	6	14	4	16	18
-1	13	3	21	-19	-9	1	4	24	-25	-7	5	4	39	-38	-1	9	4	38	39	-13	15	4	22	-25
1	13	3	25	26	-7	1	4	47	46	-5	5	4	75	75	1	9	4	36	35	-7	15	4	23	-22
3	13	3	27	-25	-5	1	4	93	-93	-3	5	4	60	59	3	9	4	25	-24	-5	15	4	37	36
7	13	3	20	-19	-3	1	4	106	107	-1	5	4	56	56	7	9	4	27	26	1	15	4	45	45
-4	14	3	72	70	-1	1	4	22	20	1	5	4	56	56	-14	10	4	34	33	3	15	4	30	-31
-2	14	3	32	33	1	1	4	28	-26	3	5	4	69	-71	-12	10	4	23	-25	-4	16	4	22	19
4	14	3	25	-27	5	1	4	27	-27	5	5	4	56	58	-10	10	4	131	136	-9	17	4	18	22
-11	15	3	33	33	9	1	4	25	29	7	5	4	66	-67	-6	10	4	26	25	-3	17	4	34	-35
-1	15	3	33	-34	-20	2	4	17	22	9	5	4	47	48	-4	10	4	37	36	-1	17	4	23	-24
1	15	3	31	32	-16	2	4	40	41	11	5	4	23	22	-2	10	4	110	-113	-4	18	4	34	-35
3	15	3	15	15	-14	2	4	33	-33	-18	6	4	41	40	0	10	4	88	92	-2	18	4	40	39
7	15	3	34	35	-12	2	4	72	-71	-16	6	4	36	-36	2	10	4	24	-29	-20	0	5	27	-25
-12	16	3	33	-33	-8	2	4	132	-135	-14	6	4	61	65	4	10	4	41	43	-18	0	5	82	82
-10	16	3	55	53	-6	2	4	65	68	-12	6	4	17	19	6	10	4	51	51	-14	0	5	57	57
-8	16	3	37	-38	-2	2	4	29	-29	-10	6	4	52	-55	-15	11	4	36	-36	-12	0	5	42	42
-2	16	3	50	-48	0	2	4	25	26	-8	6	4	48	48	-13	11	4	28	26	-10	0	5	149	-151
0	16	3	27	27	2	2	4	43	-44	-2	6	4	81	80	-11	11	4	27	-28	-8	0	5	95	93
2	16	3	26	-28	4	2	4	50	-49	0	6	4	58	-58	-9	11	4	16	-13	-6	0	5	65	-63
4	16	3	25	26	6	2	4	66	-68	2	6	4	23	23	-7	11	4	23	23	-4	0	5	40	37
-9	17	3	34	-38	8	2	4	24	-26	6	6	4	50	-52	-5	11	4	43	-41	-2	0	5	190	188
-7	17	3	37	38	10	2	4	24	-23	8	6	4	25	21	-3	11	4	16	-8	0	0	5	43	-43
1	17	3	22	-23	-19	3	4	69	-66	-17	7	4	66	-67	-1	11	4	51	-51	2	0	5	127	127
5	17	3	25	-27	-13	3	4	84	-89	-5	7	4	82	-83	3	11	4	18	16	4	0	5	33	-34
0	18	3	14	18	-11	3	4	123	129	-3	7	4	38	-37	7	11	4	20	-21	6	0	5	30	-34
2	18	3	28	-25	-9	3	4	55	-52	-1	7	4	52	-50	-16	12	4	25	-25	8	0	5	45	46
-7	19	3	26	24	-7	3	4	45	44	1	7	4	49	-49	-14	12	4	26	22	-13	1	5	46	47
-5	19	3	40	-42	-5	3	4	19	12	3	7	4	16	15	-12	12	4	48	-47	-11	1	5	48	-49
-3	19	3	26	26	-3	3	4	125	-127	11	7	4	32	-33	-10	12	4	53	-53	-9	1	5	60	58
-20	0	4	23	-20	-1	3	4	77	-78	-16	8	4	25	25	-8	12	4	20	-18	-5	1	5	29	28
-18	0	4	43	43	5	3	4	23	25	-14	8	4	46	-44	-6	12	4	42	-45	-3	1	5	26	24
-16	0	4	106	-105	7	3	4	22	19	-10	8	4	51	-49	-4	12	4	39	39	-1	1	5	28	-25
-14	0	4	154	160	9	3	4	45	-46	-8	8	4	51	-52	-2	12	4	20	13	3	1	5	14	17
-12	0	4	20	-22	-18	4	4	14	-17	-6	8	4	18	18	0	12	4	19	20	-18	2	5	39	-39
-10	0	4	51	52	-16	4	4	17	18	-4	8	4	34	-32	2	12	4	46	-49	-16	2	5	27	-23
-8	0	4	121	123	-14	4	4	70	-69	-2	8	4	40	40	6	12	4	40	-46	-14	2	5	50	-51
-6	0	4	82	-77	-12	4	4	53	50	0	8	4	53	-55	-9	13	4	42	-42	-12	2	5	15	-11

OBSERVED AND CALCULATED STRUCTURE FACTORS FOR CLINOPTILOLITE DEHYD3 FROM WEITENDORF

H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC
-10	2	5	78	79	-2	6	5	24	22	0	12	5	76	-76	0	4	6	15	17	-10	0	7	42	41
-8	2	5	48	-50	0	6	5	47	-48	-15	13	5	28	32	-15	5	6	69	72	-8	0	7	36	-34
-6	2	5	58	60	6	6	5	16	-16	-7	13	5	24	-25	-7	5	6	62	-62	-2	0	7	21	20
-4	2	5	102	-103	-11	7	5	68	-70	-8	14	5	34	-33	-5	5	6	25	26	0	0	7	32	29
-2	2	5	56	-53	-9	7	5	77	-79	-2	14	5	28	27	-1	5	6	60	60	2	0	7	44	40
0	2	5	49	-51	-7	7	5	24	-21	0	14	5	32	33	3	5	6	26	28	-17	1	7	26	-29
2	2	5	73	-74	-5	7	5	68	-65	-11	15	5	36	36	-16	6	6	25	25	-15	1	7	32	35
4	2	5	19	16	-3	7	5	79	76	-7	15	5	35	36	-10	6	6	39	-41	-13	1	7	16	-17
-15	3	5	27	27	-1	7	5	15	12	1	15	5	19	18	-8	6	6	18	14	-9	1	7	43	41
-13	3	5	102	-106	1	7	5	25	-25	-2	16	5	37	-39	-4	6	6	31	-35	-7	1	7	32	-31
-11	3	5	45	47	3	7	5	15	13	-20	0	6	74	76	-2	6	6	71	69	-5	1	7	49	49
-9	3	5	68	-65	5	7	5	51	-54	-14	0	6	48	47	0	6	6	89	-82	3	1	7	23	-18
-7	3	5	78	-80	7	7	5	23	-24	-12	0	6	38	-37	2	6	6	44	45	-16	2	7	25	-23
-5	3	5	35	35	-16	8	5	27	-30	-10	0	6	92	91	6	6	6	33	-35	-14	2	7	70	-73
-3	3	5	84	-85	-12	8	5	37	-35	-8	0	6	46	47	-17	7	6	45	-47	-12	2	7	21	23
-1	3	5	48	49	-10	8	5	65	64	-6	0	6	69	70	-11	7	6	49	-46	-10	2	7	56	-56
1	3	5	38	38	-8	8	5	25	-22	-4	0	6	52	54	-9	7	6	47	45	-8	2	7	35	35
3	3	5	71	-71	-6	8	5	33	34	-2	0	6	40	40	-1	7	6	55	-53	-4	2	7	23	-18
5	3	5	20	22	-2	8	5	42	-41	0	0	6	52	-52	3	7	6	31	-31	-2	2	7	19	17
7	3	5	40	-42	0	8	5	38	41	4	0	6	34	31	-16	8	6	26	-23	0	2	7	55	-54
-14	4	5	27	28	2	8	5	48	-46	-11	1	6	16	16	-10	8	6	28	-26	-17	3	7	31	28
-12	4	5	18	-17	4	8	5	21	21	-9	1	6	50	-53	-6	8	6	30	-31	-15	3	7	44	-43
-10	4	5	39	38	-13	9	5	22	-22	-7	1	6	56	58	-4	8	6	17	18	-13	3	7	36	31
-8	4	5	45	-47	-11	9	5	55	54	-5	1	6	70	-71	-17	9	6	41	41	-9	3	7	57	-54
-6	4	5	42	45	-9	9	5	36	37	-3	1	6	57	58	-11	9	6	36	38	-5	3	7	75	-76
-4	4	5	67	66	-5	9	5	78	80	3	1	6	41	39	-9	9	6	34	-36	-14	4	7	38	38
-2	4	5	46	-47	-3	9	5	85	-88	5	1	6	39	-38	-1	9	6	32	31	-10	4	7	38	32
0	4	5	104	104	5	9	5	39	43	7	1	6	16	17	1	9	6	33	34	-8	4	7	30	-28
4	4	5	18	16	-16	10	5	37	40	-12	2	6	23	-23	-14	10	6	20	-25	0	4	7	42	40
6	4	5	24	23	-14	10	5	22	-24	-10	2	6	42	-43	-10	10	6	52	52	-9	5	7	41	41
8	4	5	34	-36	-12	10	5	37	38	-8	2	6	69	-68	-6	10	6	54	56	-7	5	7	34	33
-15	5	5	38	-37	-10	10	5	17	-16	-6	2	6	60	-61	-13	11	6	25	-24	-5	5	7	51	49
-13	5	5	45	45	-8	10	5	32	-34	-4	2	6	20	-22	-11	11	6	24	25	-16	6	7	16	-16
-11	5	5	51	52	-6	10	5	33	33	-2	2	6	45	-46	-9	11	6	26	-30	-14	6	7	50	46
-9	5	5	21	21	-4	10	5	13	-20	0	2	6	42	39	-7	11	6	43	45	-12	6	7	79	-80
-7	5	5	152	150	-2	10	5	47	48	4	2	6	29	-31	-5	11	6	25	-22	-10	6	7	47	48
-5	5	5	90	-90	2	10	5	41	41	-15	3	6	71	-69	-1	11	6	16	-9	-8	6	7	27	-27
-3	5	5	105	100	4	10	5	16	-19	-9	3	6	35	37	-14	12	6	60	60	-4	6	7	44	44
-1	5	5	96	-94	-11	11	5	25	-21	-5	3	6	56	57	-12	12	6	60	-61	-2	6	7	39	-33
1	5	5	25	23	-9	11	5	26	26	-3	3	6	62	-64	-8	12	6	39	-39	0	6	7	21	18
3	5	5	39	38	-7	11	5	32	-31	-1	3	6	33	-32	-6	12	6	43	-45	-13	7	7	19	20
7	5	5	53	54	-3	11	5	25	26	3	3	6	67	-63	-13	13	6	24	23	-9	7	7	32	-34
-16	6	5	29	-23	1	11	5	32	30	5	3	6	49	51	-11	13	6	40	-39	-7	7	7	23	-25
-14	6	5	39	37	3	11	5	23	-25	-18	4	6	22	21	-3	13	6	16	20	-5	7	7	53	-53
-12	6	5	28	-29	-16	12	5	42	-42	-16	4	6	15	-14	-1	13	6	24	-21	-14	8	7	24	-25
-10	6	5	36	-37	-10	12	5	20	-22	-10	4	6	50	55	-8	14	6	23	24	-6	8	7	19	22
-8	6	5	36	35	-8	12	5	46	46	-8	4	6	28	25	-16	0	7	44	43	-15	9	7	35	-34
-6	6	5	61	-62	-4	12	5	28	-31	-6	4	6	45	45	-14	0	7	65	64	-7	9	7	44	45

H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC
-12	10	7	35	38	-12	0	8	54	-51	-8	2	8	26	-24	-7	3	8	29	32	-4	6	8	28	27
-2	10	7	21	20	-10	0	8	33	32	-4	2	8	45	-43	-2	4	8	36	33	-11	7	8	27	-22
-9	11	7	38	37	-4	0	8	90	92	-15	3	8	19	-16	-13	5	8	32	31	-7	7	8	16	-12
-7	11	7	50	-52	-2	0	8	35	-33	-13	3	8	20	-18	-9	5	8	51	45	-5	7	8	40	36
-5	11	7	30	29	-15	1	8	19	-10	-9	3	8	35	-35	-7	5	8	46	-43	-8	8	8	29	-31

for deposit

Table. 3. Occupancies, positional parameters, and B_{eq} values of clinoptilolite from Weitendorf. Prefix of atom label indicates various experiments, 1: natural, 2: dehyd1, 3: dehyd2, 4: dehyd3.

atom	x/a	y/b	z/c	B_{eq}, Å^2
tetrahedral framework				
T1: 80% Si + 20% Al				
1T-1	0.17927(6)	0.16962(6)	0.0977(1)	0.90(2)
2T-1	0.18025(7)	0.16550(7)	0.0958(2)	1.55(2)
3T-1	0.17994(9)	0.16504(9)	0.0955(2)	1.99(3)
4T-1	0.18000(9)	0.16442(9)	0.0954(2)	2.23(3)
T2: 70% Si + 30% Al				
1T-2	0.28610(6)	0.08933(5)	0.4979(2)	0.91(2)
2T-2	0.29411(7)	0.08956(7)	0.5060(2)	1.61(2)
3T-2	0.29379(9)	0.08940(8)	0.5050(2)	2.01(3)
4T-2	0.29438(9)	0.08927(9)	0.5055(2)	2.24(3)
T3: 83% Si + 17% Al				
1T-3	0.29371(6)	0.30942(5)	0.2856(1)	0.89(2)
2T-3	0.28791(7)	0.31266(7)	0.2758(2)	1.63(2)
3T-3	0.28815(9)	0.31309(9)	0.2759(2)	2.12(3)
4T-3	0.28785(9)	0.31341(9)	0.2752(2)	2.45(3)
T4: 84% Si + 16% Al				
1T-4	0.06483(6)	0.30014(6)	0.4124(1)	0.93(2)
2T-4	0.06506(7)	0.29153(7)	0.4132(2)	1.71(2)
3T-4	0.06569(9)	0.29112(9)	0.4158(2)	2.14(3)
4T-4	0.06585(9)	0.29037(9)	0.4165(2)	2.39(3)
T5: 92% Si + 8% Al				
1T-5	0	0.21707(8)	0	0.93(2)
2T-5	0	0.2075(1)	0	1.59(3)
3T-5	0	0.2086(1)	0	1.94(4)
4T-5	0	0.2082(1)	0	2.23(4)
101	0.3022(3)	0	0.5447(6)	1.86(7)
201	0.3159(4)	0	0.5552(8)	3.8(1)
301	0.3142(5)	0	0.555(1)	5.2(2)
401	0.3144(5)	0	0.556(1)	5.7(2)
102	0.2301(2)	0.1210(2)	0.6097(4)	2.16(5)
202	0.2418(3)	0.1179(2)	0.6282(6)	4.35(8)
302	0.2431(3)	0.1177(3)	0.6308(8)	5.7(1)
402	0.2441(3)	0.1175(3)	0.6321(8)	6.1(1)
103	0.1827(2)	0.1546(2)	0.1150(4)	2.15(5)
203	0.1885(2)	0.1464(2)	0.1109(5)	2.95(7)
303	0.1903(3)	0.1443(3)	0.1084(5)	3.46(8)
403	0.1907(3)	0.1431(3)	0.1079(5)	3.70(9)
104	0.2354(2)	0.1046(2)	0.2532(4)	1.95(5)
204	0.2394(2)	0.1030(2)	0.2607(5)	2.82(6)
304	0.2371(2)	0.1011(3)	0.2618(6)	3.58(9)
404	0.2373(3)	0.1005(3)	0.2631(6)	3.99(9)

Table 3 - continued

atom	x/a	y/b	z/c	B_{eq}, Å^2
105	0	0.3282(2)	1/2	2.16(7)
205	0	0.3167(4)	1/2	4.9(1)
305	0.	0.3158(5)	1/2	6.5(2)
405	0	0.3146(5)	1/2	7.2(2)
106	0.0815(2)	0.1627(2)	0.0633(4)	1.64(5)
206	0.0820(2)	0.1537(2)	0.0555(5)	2.34(6)
306	0.0815(2)	0.1553(2)	0.0516(6)	2.88(8)
406	0.0814(2)	0.1549(2)	0.0507(6)	3.22(8)
107	0.3764(2)	0.2670(2)	0.4520(4)	2.67(5)
207	0.3703(3)	0.2720(2)	0.4495(6)	4.68(8)
307	0.3711(3)	0.2745(3)	0.4483(7)	5.4(1)
407	0.3709(3)	0.2752(3)	0.4481(7)	5.7(1)
108	0.0084(2)	0.2704(2)	0.1834(4)	2.14(5)
208	0.0116(2)	0.2615(2)	0.1858(5)	3.57(7)
308	0.0136(3)	0.2625(3)	0.1883(6)	4.40(9)
408	0.0140(3)	0.2621(3)	0.1877(6)	4.8(1)
109	0.2140(2)	0.2525(2)	0.1842(4)	1.78(5)
209	0.2107(2)	0.2525(2)	0.1688(4)	2.37(6)
309	0.2127(2)	0.2510(2)	0.1701(5)	2.83(7)
409	0.2129(2)	0.2505(2)	0.1693(5)	3.08(8)
1010	0.1193(2)	0.3723(2)	0.4063(4)	2.02(5)
2010	0.1137(2)	0.3681(2)	0.4038(5)	3.70(7)
3010	0.1158(3)	0.3671(3)	0.4144(7)	4.5(1)
4010	0.1160(3)	0.3665(3)	0.4165(7)	5.0(1)

Table 3 -continued

atom	occup.	x/a	y/b	z/c	B_{eq}, Å^2
structural channels					
1NA1	0.48(1)	0.1422(4)	0	0.6746(8)	2.4(1)
2NA1	0.28(1)	0.195(1)	0	0.760(2)	4.4(4)
3NA1	0.21(2)	0.208(2)	0	0.788(5)	6.4(7)
4NA1	0.19(5)	0.214(5)	0	0.80(1)	5.924(1)
1CA2	0.392(5)	0.4584(2)	0	0.8011(5)	2.52(7)
2CA2	0.222(7)	0.4632(5)	0	0.748(1)	5.3(2)
3CA2	0.11(1)	0.456(1)	0	0.728(3)	4.9(5)
4CA2	0.08(1)	0.454(2)	0	0.718(4)	5.3(6)
1K3$^{\$}$	0.14(2)	0.248(1)	1/2	0.055(2)	4.0(2)
2K3$^{\$}$	0.33(1)	0.2413(4)	1/2	0.0570(8)	5.2(1)
3K3$^{\$}$	0.43(1)	0.2442(3)	1/2	0.0635(8)	5.2(1)
4K3$^{\$}$	0.46(3)	0.2440(7)	1/2	0.064(3)	5.3(2)
2K32	0.06(1)	0.230(3)	0	-0.011(7)	3.95 *
3K32	0.10(1)	0.22	0	0.01	3.95 *
4K32	0.08(1)	0.22	0	0.01	3.95 *
2K31	0.03(1)	0.215(4)	0	0.14(1)	3.95 *
1Mg4	0.36(1)	0	0	1/2	3.2(2)
1O11	0.30(3)	0.711(2)	0	0.973(5)	5.4(5)
1O12	1.0	0.096(1)	0	0.784(6)	40.8(17)
2O12	0.36(2)	0.083(1)	0	0.878(4)	8.6(7)
3O12	0.27(2)	0.086(2)	0	0.886(6)	8.76(6)
4O12	0.21(2)	0.084(2)	0	0.897(7)	8.2(13)
1O13	1.0	0.4198(3)	0.9189(3)	0.0348(7)	5.9(1)
2O13	0.41(2)	0.433(2)	0.918(1)	0.037(4)	25.8(12)
3O13	0.39(2)	0.396(3)	0.920(6)	0.075(9)	60.9(57)
4O13	0.37(3)	0.392(2)	0.922(5)	0.07(1)	68.4(68)
1O14	1.0	0	1/2	1/2	6.5(3)
2O14	0.62(4)	0	1/2	1/2	13.38(5)
3O14	0.40(4)	0	1/2	1/2	14.00(9)
4O14	0.40(4)	0	1/2	1/2	15.6(21)
1O15	0.41(1)	-0.007(1)	0.1014(8)	0.573(3)	8.1(4)
1O16	0.53(6)	0.044(4)	0	0.08(2)	25.5(35)
1O16′	0.30(3)	0.440(2)	0.466(3)	0.686(6)	24.4(16)
2O18	0.19(1)	0.101(2)	0	0.112(5)	3.95 *
3O18	0.04(1)	0.106(6)	0	0.11(1)	3.95 *
4O18	0.06(1)	0.116(6)	0	0.13(1)	3.95 *
1O19	0.16(1)	0.363(4)	0	0.192(9)	7.90 *

Note: $B_{eq} = 8/3\ \pi^2 \Sigma_i (\Sigma_j [U_{ij} a_i^* a_j^* a_i a_j])$

* Starred B_{eq} values without standard deviations in parentheses were fixed;

$^{\$}$ In addition to the refined K population 0.08 Ba was constrained to site K3.

for deposit

Table 4. Anisotropic displacement parameters U_{ij} for Clinoptilolite from Weitendorf

sample: Natural

atom	U_{11}	U_{22}	U_{33}	U_{12}	U_{13}	U_{23}
T1	0.0096(5)	0.0149(5)	0.0100(5)	-0.0004(4)	0.0047(4)	0.0011(4)
T2	0.0123(5)	0.0101(5)	0.0124(5)	0.0005(4)	0.0057(4)	0.0002(4)
T3	0.0120(5)	0.0135(5)	0.0094(4)	0.0002(4)	0.0058(4)	0.0003(4)
T4	0.0110(5)	0.0143(5)	0.0105(5)	-0.0005(4)	0.0051(4)	0.0002(4)
T5	0.0098(6)	0.0143(7)	0.0109(6)	0	0.0042(5)	0
O1	0.030(2)	0.015(2)	0.023(2)	0	0.009(2)	0
O2	0.032(2)	0.027(2)	0.032(2)	-0.004(1)	0.022(1)	-0.008(1)
O3	0.039(2)	0.028(2)	0.022(1)	-0.004(1)	0.021(1)	0.000(1)
O4	0.024(1)	0.026(2)	0.019(1)	0.009(1)	0.005(1)	0.001(1)
O5	0.033(2)	0.029(2)	0.031(2)	0	0.024(2)	0
O6	0.015(1)	0.020(1)	0.027(1)	-0.001(1)	0.008(1)	0.001(1)
O7	0.029(2)	0.034(2)	0.030(2)	0.011(1)	0.005(1)	0.010(1)
O8	0.025(1)	0.032(2)	0.022(1)	0.001(1)	0.008(1)	-0.011(1)
O9	0.019(1)	0.021(1)	0.030(2)	-0.006(1)	0.013(1)	-0.008(1)
O10	0.022(1)	0.023(2)	0.032(2)	-0.007(1)	0.012(1)	-0.002(1)
NA1	0.033(3)	0.014(3)	0.036(3)	0	0.010(2)	0
CA2	0.021(2)	0.026(2)	0.040(2)	0	0.006(1)	0
K3	0.090(8)	0.020(3)	0.070(6)	0	0.060(6)	0
Mg4	0.028(5)	0.015(4)	0.064(6)	0	0.008(4)	0
O11	0.04(1)	0.11(2)	0.05(1)	0	0.01(1)	0
O12	0.14(1)	0.073(9)	0.92(7)	0	-0.14(3)	0
O13	0.077(3)	0.053(3)	0.075(3)	0.006(2)	0.015(2)	-0.002(2)
O14	0.078(7)	0.038(5)	0.133(9)	0	0.048(7)	0
O15	0.08(1)	0.09(1)	0.13(2)	0	0.04(1)	0
O16	0.43(7)	0.03(1)	0.8(1)	0	0.57(9)	0
O16'	0.32(4)	0.24(6)	0.28(5)	-0.16(4)	0.06(3)	0.10(4)

sample: Dehyd1

atom	U_{11}	U_{22}	U_{33}	U_{12}	U_{13}	U_{23}
T1	0.0133(6)	0.0287(7)	0.0182(6)	-0.0025(5)	0.0085(5)	0.0012(5)
T2	0.0232(6)	0.0185(6)	0.0221(6)	-0.0006(5)	0.0126(5)	0.0001(5)
T3	0.0211(6)	0.0262(7)	0.0180(6)	-0.0003(5)	0.0118(5)	0.0003(5)
T4	0.0181(6)	0.0298(7)	0.0186(6)	-0.0026(5)	0.0096(5)	-0.0011(5)
T5	0.0167(8)	0.0259(9)	0.0172(8)	0	0.0071(7)	0
O1	0.068(4)	0.023(3)	0.044(3)	0	0.016(3)	0
O2	0.064(3)	0.061(3)	0.065(3)	-0.010(2)	0.051(2)	-0.022(2)
O3	0.040(2)	0.047(2)	0.030(2)	-0.014(2)	0.020(2)	-0.006(2)
O4	0.026(2)	0.045(2)	0.028(2)	0.007(2)	0.006(1)	0.007(2)
O5	0.080(4)	0.074(4)	0.071(4)	0	0.068(4)	0
O6	0.017(2)	0.035(2)	0.040(2)	0.000(1)	0.015(1)	0.003(1)
O7	0.047(2)	0.049(2)	0.051(2)	0.010(2)	-0.004(2)	0.021(2)
O8	0.045(2)	0.053(2)	0.030(2)	0.001(2)	0.010(2)	-0.019(2)
O9	0.031(2)	0.029(2)	0.037(2)	-0.008(1)	0.022(2)	-0.005(1)
O10	0.037(2)	0.050(2)	0.047(2)	-0.018(2)	0.013(2)	0.002(2)
Na1	0.09(1)	0.020(6)	0.08(1)	0	0.06(1)	0
Ca2	0.046(5)	0.074(7)	0.050(6)	0	-0.005(4)	0
K3	0.122(4)	0.019(2)	0.087(4)	0	0.075(4)	0
O12	0.08(2)	0.04(1)	0.14(3)	0	-0.01(1)	0
O13	0.44(5)	0.13(2)	0.12(2)	0.11(2)	-0.13(3)	-0.05(2)
O14	0.18(3)	0.14(2)	0.24(4)	0	0.14(3)	0

Table 4 continued

sample: Dehyd2

atom	U_{11}	U_{22}	U_{33}	U_{12}	U_{13}	U_{23}
T1	0.0152(7)	0.0395(9)	0.0214(7)	-0.0023(6)	0.0085(5)	0.0017(6)
T2	0.0300(8)	0.0227(8)	0.0267(8)	-0.0007(6)	0.0154(7)	-0.0007(6)
T3	0.0269(8)	0.0347(9)	0.0228(7)	-0.0018(7)	0.0147(6)	-0.0008(7)
T4	0.0219(7)	0.0397(9)	0.0216(7)	-0.0052(7)	0.0116(6)	-0.0039(7)
T5	0.019(1)	0.033(1)	0.021(1)	0	0.0072(8)	0
O1	0.084(5)	0.026(3)	0.059(4)	0	0.008(4)	0
O2	0.082(4)	0.084(4)	0.080(4)	-0.018(3)	0.064(3)	-0.035(3)
O3	0.046(2)	0.060(3)	0.032(2)	-0.016(2)	0.024(2)	-0.009(2)
O4	0.029(2)	0.062(3)	0.038(2)	0.005(2)	0.008(2)	0.014(2)
O5	0.100(6)	0.098(6)	0.101(6)	0	0.092(5)	0
O6	0.019(2)	0.043(2)	0.051(2)	-0.002(2)	0.019(2)	0.003(2)
O7	0.059(3)	0.060(3)	0.053(3)	0.008(3)	-0.003(2)	0.024(2)
O8	0.053(3)	0.065(3)	0.035(2)	0.005(2)	0.008(2)	-0.020(2)
O9	0.036(2)	0.040(2)	0.039(2)	-0.011(2)	0.023(2)	-0.005(2)
O10	0.041(3)	0.059(3)	0.062(3)	-0.019(2)	0.014(2)	0.005(2)
Na1	0.15(2)	0.02(1)	0.12(2)	0	0.10(2)	0
Ca2	0.05(1)	0.05(1)	0.07(2)	0	0.01(1)	0
K3	0.097(4)	0.023(2)	0.087(4)	0	0.049(4)	0
O12	0.04(2)	0.07(2)	0.16(4)	0	-0.01(2)	0
O13	0.26(5)	1.1(2)	0.56(8)	-0.36(9)	-0.18(5)	0.4(1)
O14	0.16(5)	0.10(3)	0.34(8)	0	0.18(5)	0

sample: Dehyd3

atom	U_{11}	U_{22}	U_{33}	U_{12}	U_{13}	U_{23}
T1	0.0164(7)	0.044(1)	0.0241(8)	-0.0021(7)	0.0092(6)	0.0023(7)
T2	0.0319(8)	0.0257(8)	0.0299(8)	-0.0006(7)	0.0162(7)	-0.0005(7)
T3	0.0303(8)	0.040(1)	0.0264(8)	-0.0033(7)	0.0164(7)	-0.0015(7)
T4	0.0242(8)	0.045(1)	0.0234(8)	-0.0052(7)	0.0121(6)	-0.0034(7)
T5	0.020(1)	0.038(1)	0.024(1)	0	0.0078(9)	0
O1	0.087(5)	0.030(4)	0.068(5)	0	0.006(4)	0
O2	0.085(4)	0.092(4)	0.088(4)	-0.017(3)	0.068(3)	-0.039(3)
O3	0.048(3)	0.064(3)	0.035(2)	-0.018(2)	0.024(2)	-0.011(2)
O4	0.033(2)	0.069(3)	0.040(2)	0.005(2)	0.008(2)	0.016(2)
O5	0.109(6)	0.107(7)	0.112(6)	0	0.100(6)	0
O6	0.023(2)	0.047(3)	0.057(3)	-0.003(2)	0.022(2)	0.001(2)
O7	0.062(3)	0.066(3)	0.054(3)	0.009(3)	-0.005(2)	0.024(3)
O8	0.057(3)	0.070(3)	0.037(2)	0.005(3)	0.005(2)	-0.023(2)
O9	0.039(2)	0.042(2)	0.044(2)	-0.012(2)	0.027(2)	-0.005(2)
O10	0.047(3)	0.064(3)	0.069(3)	-0.020(2)	0.016(2)	0.004(3)
NA1	0.11(3)	0.03(1)	0.10(3)	0	0.06(3)	0
CA2	0.06(2)	0.05(2)	0.07(2)	0	0.01(1)	0
O13	0.16(4)	1.3(3)	0.7(1)	-0.35(8)	-0.19(5)	0.7(2)
K3	0.086(4)	0.025(2)	0.095(8)	0	0.045(5)	0
O14	0.18(5)	0.15(4)	0.34(8)	0	0.19(6)	0
O12	0.03(2)	0.10(4)	0.14(4)	0	0.00(2)	0

for deposit

Table 5. T-O distances [Å], T-O-T bridging angles [°], and M-O distances [Å].

	Natural	dehyd1	dehyd3
T1-O3	1.624(4)	1.633(4)	1.633(5)
-O4	1.625(3)	1.622(3)	1.632(4)
-O6	1.631(3)	1.628(4)	1.624(4)
-O9	1.624(3)	1.630(3)	1.615(4)
average	1.626	1.628	1.626
Al content 20%			
T2-O4	1.646(3)	1.642(3)	1.618(4)
-O2	1.645(4)	1.630(6)	1.624(7)
-O1	1.633(1)	1.623(2)	1.605(2)
-O10	1.644(3)	1.629(3)	1.612(5)
average	1.642	1.631	1.616
Al content 30%			
T3-O2	1.618(3)	1.612(5)	1.608(7)
-O3	1.628(4)	1.621(4)	1.629(5)
-O7	1.618(3)	1.607(4)	1.589(4)
-O9	1.623(3)	1.619(3)	1.622(4)
average	1.622	1.615	1.612
Al content 17%			
T4-O5	1.624(2)	1.606(2)	1.595(3)
-O7	1.611(3)	1.590(4)	1.595(4)
-O8	1.625(3)	1.613(4)	1.590(4)
-O10	1.622(3)	1.601(3)	1.595(6)
average	1.621	1.603	1.593
Al content 16%			
T5-O6 (2x)	1.622(3)	1.615(3)	1.606(4)
-O8 (2x)	1.611(3)	1.605(4)	1.596(5)
average	1.617	1.610	1.601
Al content 8%			
T2-O1-T2	156.3(3)	152.0(3)	152.6(4)
T3-O2-T2	148.0(2)	148.3(3)	149.0(4)
T1-O3-T3	145.0(2)	140.6(2)	138.4(3)
T1-O4-T2	139.4(2)	141.7(2)	141.5(3)
T4-O5-T4	143.9(3)	148.0(4)	149.3(6)
T1-O6-T5	137.6(2)	136.4(2)	138.5(3)
T3-O7-T4	159.2(2)	161.8(3)	158.9(3)
T5-O8-T4	148.9(2)	151.8(3)	153.0(3)
T1-O9-T3	148.4(2)	148.6(2)	152.0(3)
T4-O10-T2	145.1(2)	144.4(2)	148.4(3)

Table 5. -continued

		Natural	dehyd1	dehyd3
Na1-O2	(2x)	2.825(6)	2.58(1)	2.57(6)
-O3	(2x)	3.098(4)	2.763(8)	2.67(4)
-O15	(2x)	2.91(1)		
-O15a	(2x)	3.00(2)		
-O16'	(2x)	2.48(4)		
-O12			2.47(4)	2.68(11)
Ca2-O1		2.554(5)	2.33(1)	2.20(3)
-O10	(2x)	2.753(3)	2.663(5)	2.61(1)
-O14		2.637(4)	2.20(1)	2.10(4)
-O13	(2x)	2.570(7)	2.82(3)	
-O13a	(2x)	2.422(5)	2.31(3)	2.79(6)
K3-O2	(2x)	3.18(1)	3.028(7)	2.97(2)
O3	(2x)	2.979(8)	2.803(5)	2.708(6)
O4	(2x)	3.07(2)	3.102(7)	3.12(2)
O12		2.46(3)	2.90(3)	2.91(4)
O13	(2x)	3.08(2)	3.17(4)	2.54(1)
K31-O4	(2x)		1.97(3)	
O18			1.93(9)	
K32-O3	(2x)		2.68(1)	2.618(3)
-O4	(2x)		2.65(4)	2.475(3)
-O18			2.80(7)	2.4(1)
-O12			2.33(5)	
Mg4-O16'	(4x)	2.16(5)		
-O15	(4x)	1.91(1)		
-O12	(2x)	2.03(3)		