

Supplementary Table S1. Powder X-ray diffraction data (d in Å) for pohlite. Only calculated lines with $I > 2.5$ are listed.

I_{obs}	d_{obs}	d_{calc}	I_{calc}	hkl	I_{obs}	d_{obs}	d_{calc}	I_{calc}	hkl
8	8.24	8.0025	4	0 0 2	19	2.261	2.2745	10	-3 0 2
7	7.73	7.6462	6	0-1 1			2.2515	36	2 0 6
7	7.37	7.3065	4	1 0 0			2.2249	13	-2 3 3
10	6.66	6.5940	12	0 1 2	8	2.183	2.1882	7	0-2 6
34	5.77	5.7910	22	-1 1 0			2.1864	6	0 2 7
		5.7574	15	1 1 0			2.1675	7	3 0 4
		5.7022	4	0-1 2			2.1329	6	2-1 6
		5.6510	11	1 0 2	9	2.090	2.0988	11	-3-2 1
		5.4116	13	1-1 1			2.0872	10	-3 2 2
		5.1723	12	-1 0 2			2.0630	3	-3-1 3
21	5.12	5.0720	27	1 1 2			2.0473	4	0-4 3
		4.6484	9	1-1 2			2.0455	4	0 4 5
20	4.376	4.3564	6	-1-1 2			2.0268	3	3 2 4
		4.3507	30	0-2 1			2.0174	5	3-2 3
		4.1375	4	-1 0 3			2.0031	7	-3 0 4
		4.0013	27	0 0 4			2.0015	16	2 4 1
28	3.986	3.9956	12	1 2 1	45	1.9943	1.9966	6	1 4 5
		3.9706	14	-1 2 0			1.9912	16	-3 1 4
		3.9489	3	1 2 0			1.9888	17	-2-2 5
		3.8935	5	0 1 4			1.9813	11	-2 2 6
		3.8859	7	1-1 3			1.9747	11	1 0 8
		3.8195	52	0 2 3			1.9515	17	-1-4 3
91	3.818	3.8082	54	1 2 2	29	1.9471	1.9482	7	0-2 7
		3.7879	54	1-2 1			1.9468	5	0 2 8
		3.6904	27	-1-2 1			1.9440	16	-1 4 5
85	3.674	3.6681	25	-1 2 2			1.9289	3	-3-1 4
		3.6533	72	2 0 0			1.9240	5	3 2 5
		3.6484	41	1 0 4			1.9216	4	1 2 8
		3.5622	15	1 1 4			1.9201	4	1-2 7
		3.5033	5	0-1 4			1.9161	4	3-2 4
		3.4694	21	1 2 3	14	1.9087	1.9120	8	3-3 1
31	3.440	3.4551	19	1-2 2			1.9050	10	3 3 3
		3.4406	7	2 0 2			1.8875	8	-1 0 8
		3.4131	15	-2 1 0			1.8674	5	2-3 5
47	3.399	3.3994	10	2 1 0			1.8647	6	0 5 3
		3.3853	100	-1 0 4	8	1.8545	5	1 5 1	
		3.3236	19	-1-2 2			1.8431	4	-1 2 8
		3.3063	17	-1 2 3			1.8407	6	-1 5 1
38	3.321	3.3002	14	0-2 3	7	1.8255	6	0 3 8	
		3.2970	16	0 2 4	6	1.7936	1.8039	4	3-3 3
		3.2932	3	2 1 2			1.7949	4	-3-1 5
		3.2621	8	1-1 4			1.7782	5	-1-5 1
		3.2374	4	-2-1 1			1.7475	3	-4 0 2
		3.1062	10	-2 1 2	7	1.7313	9	0-3 7	
		3.0650	5	-1-1 4			1.7264	3	-3 1 6

