

Supplementary Materials: New Mineral with Modular Structure Derived from Hatrurite from the Pyrometamorphic Rocks of the Hatrurim Complex: Ariegilatite, $\text{BaCa}_{12}(\text{SiO}_4)_4(\text{PO}_4)_2\text{F}_2\text{O}$, from Negev Desert, Israel

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Table S1. Calculated powder pattern for ariegilatite. Intensities were calculated using the software JANA2006 [30].

<i>h</i>	<i>k</i>	<i>l</i>	<i>d</i> _{hkl} [Å]	<i>I</i> [%]	<i>h</i>	<i>k</i>	<i>l</i>	<i>d</i> _{hkl} [Å]	<i>I</i> [%]	<i>h</i>	<i>k</i>	<i>l</i>	<i>d</i> _{hkl} [Å]	<i>I</i> [%]
0	0	3	13.768	3	3	0	9	1.884	23	3	-2	14	1.834	3
0	0	6	6.884	2	4	-1	23	1.242	4	1	0	22	1.797	3
1	-1	2	5.935	17	4	-4	20	1.239	3	4	-2	0	1.789	92
1	0	4	5.313	13	2	-2	31	1.224	4	2	-2	19	1.780	10
1	0	7	4.273	8	5	0	8	1.205	2	3	-3	12	1.771	12
1	-1	8	3.967	8	6	-3	0	1.193	5	1	-1	23	1.725	4
2	-1	0	3.578	51	4	-3	25	1.191	4	2	0	20	1.718	17
2	-1	3	3.463	30	6	-4	1	1.171	8	4	-1	8	1.631	8
1	0	10	3.437	45	4	-2	27	1.163	2	1	0	25	1.596	8
1	-1	11	3.211	8	6	-3	9	1.154	3	4	-1	11	1.563	3
2	-1	6	3.174	17	6	-4	7	1.149	6	2	0	23	1.554	2
2	-2	1	3.090	100	6	-2	8	1.142	7	2	-1	24	1.551	15
2	-2	4	2.968	6	2	-2	34	1.131	5	4	0	1	1.548	10
2	0	5	2.901	19	6	-4	10	1.127	2	3	-3	18	1.535	3
1	0	13	2.827	18	4	-3	28	1.119	4	4	-4	5	1.523	3
2	-1	9	2.822	82	2	0	35	1.103	4	4	-2	15	1.500	38
0	0	15	2.754	62	4	-2	30	1.091	6	4	0	7	1.498	6
2	-2	7	2.743	51	6	-2	14	1.088	4	4	-1	14	1.485	2
1	-1	14	2.664	2	6	-5	8	1.088	3	4	-4	8	1.484	4
2	0	8	2.657	17	5	-2	25	1.078	4	3	-1	22	1.465	4
2	-1	12	2.480	34	6	-4	16	1.066	9	2	-2	25	1.458	2
2	0	11	2.390	3	5	-4	24	1.063	6	1	0	28	1.435	3
1	0	16	2.383	6	6	0	0	1.033	8	3	-2	23	1.425	4
3	-2	2	2.327	13	6	-4	19	1.031	2	0	0	30	1.377	2
0	0	18	2.295	2	5	-2	28	1.024	3	4	-4	14	1.372	4
3	-1	4	2.284	3	6	-2	20	1.019	3	5	-1	0	1.352	5
3	-2	5	2.253	3	7	-5	6	0.982	3	3	-1	25	1.350	5
2	-2	13	2.218	3	7	-2	9	0.970	6	5	-2	10	1.344	5
3	-1	7	2.177	20	6	0	15	0.967	4	5	-3	11	1.330	2
2	0	14	2.137	36	6	-6	15	0.967	3	4	0	16	1.328	7
3	-2	8	2.133	35	4	-2	36	0.966	3	5	-1	6	1.327	4
3	0	0	2.066	3	4	0	34	0.956	3	3	0	24	1.322	10
3	-3	3	2.043	5	7	-5	12	0.953	2	5	-2	13	1.298	4

3	-1	10	2.037	9	6	-5	23	0.946	2	5	-4	9	1.297	10
2	-2	16	1.983	47	4	-4	35	0.939	3	5	-1	9	1.297	2
3	-3	6	1.978	14	7	-3	22	0.895	2	4	-3	22	1.268	2
3	-1	13	1.885	3	8	-4	0	0.894	7	4	0	19	1.262	2
3	-3	9	1.884	4	6	-4	31	0.880	3	5	-4	12	1.259	2
