

Electronic supplementary materials
Elektronikus kiegészítő anyagok

Mineralogical mosaics from the Carpathian-Pannonian region 4
Ásványtani mozaikok a Kárpát-Pannon régióból 4.

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Table E1. X-ray powder diffraction data of the turquoise-group mineral from Parádfürdő in comparison with the corresponding reflections of the ICDD 00-050-1654 (planerite) and ICDD 00-006-0216 (faustite) cards

E1. táblázat. A türkizcsoportba tartozó parádfürdői ásvány röntgen-pordiffrakciós adatai, összehasonlítva az ICDD 00-050-1654 (planerit) és az ICDD 00-006-0216 (faustit) kártyák megfelelő reflexióival

Parádfürdő sample		Planerite ICDD 00-050-1654		Faustite ICDD 00-006-0216	
<i>d</i> (Å)	<i>I</i> (%)	<i>d</i> (Å)	<i>I</i> (%)	<i>d</i> (Å)	<i>I</i> (%)
6.792	58	6.809	90	6.70	70
6.196	65	6.182	28	6.14	70
6.006	19			5.98	40
5.733	6			5.80	20
4.812	10			4.81	50
4.720	6	4.727	36		
3.696	100	3.745	100	3.68	100
3.587	10	3.571	13		
3.505	10	3.493	15	3.50	10
3.429	22	3.433	23	3.44	60
3.280	13	3.285	35	3.28	60
3.221	6	3.234	26		
3.090	22	3.090	36	3.08	40
3.032	8	3.012	17	3.03	20
2.988	8	2.928	17	2.99	20
2.898	27	2.886	15	2.89	80
2.827	7	2.830	10	2.79	10
2.531	11	2.548	20	2.52	40
2.495	6	2.509	23		
2.472	6			2.47	10
2.437	7			2.42	20
2.357	10	2.354	9	2.35	40

Table E2. X-ray powder diffraction data of azurite, partially altered to pseudomalachite, from Ocna de Fier, Romania, compared with the corresponding reflections of the ICDD 00-036-0408 (pseudomalachite) and 00-011-0682 (azurite) cards

E2. táblázat. Részlegesen pszeudomalachittá alakult azurit röntgen-pordiffrakciós adatai (Vaskő, Románia), összehasonlítva az ICDD 00-036-0408 (pszeudomalachit) és 00-011-0682 (azurit) kártyák megfelelő reflexióival

Pseudomalachite and azurite, Ocna de Fier, Romania (this study)		Pseudomalachite, Virneberg, Germany (ICDD 00-036-0408)		Azurite from an unknown locality (ICDD 00-011-0682)	
<i>d</i> (Å)	<i>I</i> _{rel} (%)	<i>d</i> (Å)	<i>I</i> _{rel} (%)	<i>d</i> (Å)	<i>I</i> _{rel} (%)
5.16	59			5.15	55
5.06	20			5.08	30
4.79	3	4.768	9		
4.48	100	4.476	100		
4.25	2	4.258	1		
3.880	6			3.860	3
3.804	13			3.800	7
3.685	48			3.674	50
3.532	89			3.516	100
3.469	27	3.468	20		
3.297	6	3.283	4		
3.247	3	3.244	1		
3.110	20	3.115	19	3.107	11
3.079	37	3.060	25		
3.010	13	3.021	5		
2.981	9	2.980	25	2.964	3
2.928	17	2.931	8	2.920	9
2.817	9			2.811	7
2.728	6	2.725	8		
2.701	3	2.701	3		
2.598	8			2.590	11
2.549	20	2.548	1	2.540	25
2.519	30			2.523	20
2.463	12	2.471	7		
2.443	24	2.435	25		
2.419	18	2.419	15		
2.398	34	2.392	30		
2.339	20	2.334	8	2.336	17
2.291	18			2.299	13
2.265	18			2.265	25
2.230	36	2.239	14	2.224	70
2.174	5			2.168	15
2.110	8			2.104	7
2.017	4	2.018	3	2.015	3
1.999	3	1.9981	2		
1.984	5	1.9824	1		
1.969	5	1.9638	3		
1.950	20	1.9476	4	1.948	20

Pseudomalachite and azurite, Ocna de Fier, Romania (this study)		Pseudomalachite, Virneberg, Germany (ICDD 00- 036-0408)		Azurite from an unknown locality (ICDD 00-011-0682)	
<i>d</i> (Å)	<i>I</i> _{rel} (%)	<i>d</i> (Å)	<i>I</i> _{rel} (%)	<i>d</i> (Å)	<i>I</i> _{rel} (%)
1.904	5			1.900	7
1.881	3			1.879	5
1.859	3	1.8589	3	1.858	3
1.843	5			1.836	7
1.828	12			1.824	17
1.788	12			1.791	9
1.774	7	1.7749	1		
1.762	8	1.7662	8	1.759	3
1.749	7	1.7425	4		
1.736	8	1.7351	7		
1.724	7	1.7250	5	1.721	3
1.711	5	1.7079	3		
1.699	5	1.6945	2	1.696	3
1.687	5	1.6868	1		
1.673	4	1.6710	3	1.6678	1
1.657	1			1.6512	3
1.597	16	1.5982	4	1.5953	15
1.584	7				
1.570	11	1.5709	3	1.5678	5
1.559	6	1.5590	7	1.5546	3
1.529	7	1.5294	4	1.5265	7
1.516	10			1.5140	11
1.508	4	1.5064	2	1.5076	9
1.492	3	1.4923	2		
1.481	6	1.4843	1	1.4773	11
1.463	3	1.4661	2		
1.431	9	1.4329	4	1.4306	9
1.419	4	1.4171	2	1.4173	5
1.408	3	1.4066	1	1.4059	3
1.400	2	1.4002	1		
1.392	4	1.3940	4	1.3910	5
1.384	3			1.3817	3
1.376	2			1.3746	5
1.357	6			1.3575	3
1.345	5	1.3470	2		
1.337	3	1.3393	1		
1.325	3	1.3220	2		
1.317	4	1.3189	2		
1.310	3	1.3116	4		
1.299	5			1.2971	17
1.256	4	1.2560	1		

Table E3. X-ray powder diffraction data of vauquelinite from Ocna de Fier in comparison with the reflections of ICDD 00-013-0302 card

E3. táblázat. A vaskői vauquelinit röntgen-pordiffrakciós adatai, összehasonlítva az ICDD 00-013-0302 kártya reflexióival

Vauquelinite Ocna de Fier		Vauquelinite ICDD 00-013-0302				
d (Å)	I (%)	d (Å)	I (%)	h	k	l
8.09	39	8.10	20	-1	0	1
4.72	97	4.73	70	-1	1	1
4.43	22	4.44	10	-2	1	0
4.05	20	4.047	5	-2	0	2
3.974	24	4.000	30	3	0	1
3.742	18	3.777	20	2	0	2
3.664	24	3.684	20	0	1	2
3.423	18	3.429	10	-3	1	1
3.281	100	3.305	100	3	1	1
3.127	12	3.159	10	2	1	2
3.056	2	3.042	10	1	0	3
2.943	23	2.955	30	4	1	0
2.899	43	2.890	60	-4	0	2
2.751	38	2.773	30	4	1	1
2.703	11	2.704	30	1	1	3
2.587	4	2.597	5	-2	2	1
2.542	1	2.525	5	2	1	3
2.442	3	2.451	5	-3	2	0
2.397	5	2.403	5	-3	2	1
2.358	3	2.362	5	-2	2	2
2.294	31	2.306	50	2	2	2
2.049	14	2.051	20	2	1	4
2.025	18	2.026	10	2	2	3
1.987	6	2.003	5	5	0	3
1.973	7	1.977	5	-3	2	3
1.878	19	1.895	50	5	1	3
1.846	14	1.848	20	-7	1	0
1.797	10	1.807	5	-1	1	5
1.720	9	1.728	5	2	3	2
1.687	1	1.688	5	-3	3	2
1.651	7	1.649	20	5	2	3
1.590	4	1.589	20	6	0	4
1.477	7	1.479	10	-3	1	6
1.453	4	1.454	5	2	3	4
1.444	4	1.442	5	8	2	1
1.385	7	1.395	5	6	2	4
1.375	5	1.374	5	-5	1	6

Table E4. X-ray powder diffraction data of the bultfonteinite-bearing sample, which also contained some vaterite, tobermorite and katoite from Vehech

E4. táblázat. A vehéci bultfonteinitartalmú, vaterittel, tobermorittal és katoittal kísért minta röntgen-pordiffrakciós adatai

Sample from Vehech		Bultfonteinite (ICDD 00-042-1435)		Vaterite (ICDD 00-033-0268)		Tobermorite-14Å (ICDD 00-006-0005)		Tobermorite-11Å (ICDD 00-045-1480)		Katoite (ICDD 00-038-0368)	
<i>d</i> (Å)	<i>I</i> (%)	<i>d</i> (Å)	<i>I</i> (%)	<i>d</i> (Å)	<i>I</i> (%)	<i>d</i> (Å)	<i>I</i> (%)	<i>d</i> (Å)	<i>I</i> (%)	<i>d</i> (Å)	<i>I</i> (%)
12.993	100					14.00	100				
11.370	15							11.30	100		
8.183	6	8.17	60								
6.586	4	6.56	15								
5.547	15	5.50	15			5.53	80	5.45	38		
5.049	14									5.046	37
4.640	7					4.65	50				
4.371	7									4.369	21
4.257	2			4.226	25						
4.088	2	4.08	37			3.95	10				
3.579	31	3.509	30	3.573	60						
3.455	3	3.461	25			3.51	10	3.514	30		
3.299	19	3.278	10	3.294	100	3.25	70	3.309	16	3.303	32
3.085	19					3.07	90	3.080	92	3.089	50
2.986	7					2.98	80	2.972	70		
2.927	4	2.928	53								
2.891	16	2.891	80								
2.836	19	2.831	60								
2.817	19	2.774	42			2.81	80	2.806	68		
2.747	44	2.749	25	2.730	90	2.72	70			2.763	100
2.646	2	2.642	10			2.63	20			2.636	12
2.520	10							2.513	20	2.518	21
2.422	12					2.41	10	2.424	9	2.424	22
2.310	9			2.318	5	2.32	70	2.282	18		
2.252	13							2.250	18	2.257	58
2.187	5	2.185	18							2.187	5
2.126	6	2.122	32					2.141	18		
2.065	15			2.063	60	2.08	50	2.071	13		
2.044	1	2.041	40								
1.999	12	1.994	25			1.99	10	2.002	24	2.004	58
1.937	16	1.933	100								
1.855	4			1.854	30	1.84	20	1.843	19		
1.827	15			1.820	70	1.83	80	1.821	11		
1.785	2			1.788	5					1.7833	10
1.713	9	1.710	10			1.70	10			1.7134	29
1.674	4					1.67	40	1.669	21	1.6814	11
1.646	16			1.646	30					1.6507	37
1.540	6			1.544	5	1.55	20			1.5457	10
1.412	5			1.413	2	1.405	30				

Table E5. X-ray powder diffraction data of the mixture of devilline and botallackite from Dobšiná in comparison with the corresponding reflections of the ICDD 00-035-0561 and 00-008-0088 cards

E5. táblázat. A dobsinai devillin + botallackit keverék röntgen-pordiffrakciós adatai, összehasonlítva az ICDD 00-035-0561 és 00-008-0088 kártya megfelelő reflexióival

Devilline + botallackite (Dobšiná)		Devilline ICDD 00-035- 0561		Botallackite ICDD 00-008- 0088	
<i>d</i> (Å)	<i>I</i> (%)	<i>d</i> (Å)	<i>I</i> (%)	<i>d</i> (Å)	<i>I</i> (%)
10.19	100	10.22	100		
5.70	21			5.66	100
5.10	75	5.099	95		
4.14	7			4.14	5
3.747	9	3.745	35		
3.396	67	3.392	65		
3.281	3			3.26	5
3.179	33	3.185	35		
2.878	1			2.84	40
2.673	31	2.668	11	2.68	30
2.634	20	2.641	10		
2.563	19			2.57	70
2.516	20	2.515	15		
2.493	9			2.46	10
2.416	15			2.40	80
2.382	19	2.388	9		
2.265	13	2.263	7		
2.105	13	2.098	35		
2.040	3			2.06	20
2.002	9	1.994	5		
1.976	11			1.98	20
1.952	2	1.950	3		
1.927	1			1.93	30
1.898	2			1.89	20
1.830	2			1.81	5
1.751	9	1.749	7		
1.716	3			1.70	5
1.625	3			1.62	10
1.580	30			1.58	10
1.540	16			1.56	10
1.521	17			1.53	40
1.475	11			1.48	20
1.436	2			1.42	10
1.416	2			1.41	10
1.369	2			1.37	10
1.342	3			1.35	20
1.293	2			1.30	10
1.277	3			1.28	20
1.223	2			1.23	10