

APPENDIX A

Joint Committee for Powder Diffraction Standard (JCPDS) [83]

Name and formula

Reference code:	01-073-2384
ICSD name:	Zinc Tin Hydroxide
Empirical formula:	H ₆ O ₆ SnZn
Chemical formula:	ZnSn(OH) ₆

Crystallographic parameters

Crystal system:	Cubic
Space group:	Pn3
Space group number:	201
a:	7.8000
b:	7.8000
c:	7.8000
Alpha:	90.0000
Beta:	90.0000
Gamma:	90.0000
Calculated density (g/cm ³):	4.00
Volume of cell (10 ⁶ pm ³):	474.55
Z:	4.00
RIR:	8.59

Subfiles and Quality

Subfiles: Inorganic
Corrosion
Modelled additional pattern
Quality: Calculated (C)

Comments

ICSD collection code: 024961

References

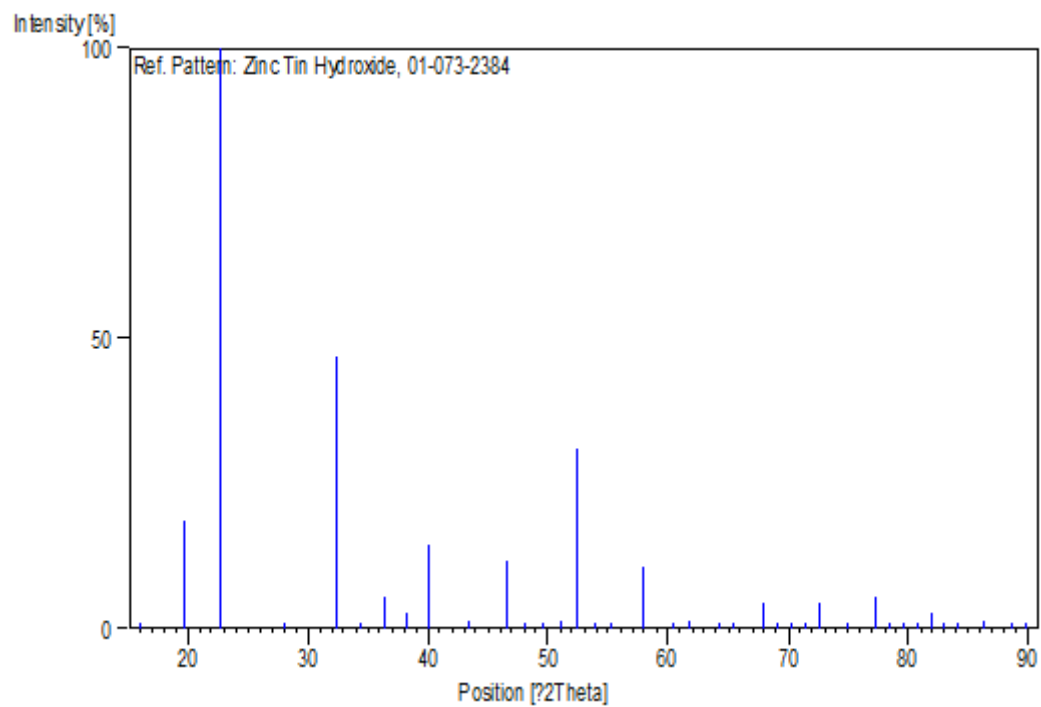
Primary reference: *Calculated from ICSD using POWD-12++, (1997)*
Structure: Cohen-Addad, C., Bull. Soc. Fr. Mineral. Cristallogr., 90, 32, (1967)

Peak list

No.	h	k	l	d [Å]	2Theta [deg]	I (%)
1	1	1	0	5.51543	16.057	0.6
2	1	1	1	4.50333	19.698	18.5
3	2	0	0	3.90000	22.783	100.0
4	2	1	1	3.18434	27.998	0.1
5	2	2	0	2.75772	32.440	46.7
6	2	2	1	2.60000	34.467	0.1
7	0	1	3	2.46658	36.395	5.4
8	3	1	1	2.35179	38.239	2.8
9	2	2	2	2.25167	40.010	14.5
10	3	2	1	2.08464	43.371	1.2
11	4	0	0	1.95000	46.535	11.7
12	3	2	2	1.89178	48.056	0.1
13	4	1	1	1.83848	49.541	0.3

14	3	3	1	1.78944	50.995	1.3
15	4	2	0	1.74413	52.419	31.1
16	4	2	1	1.70210	53.816	0.1
17	3	3	2	1.66297	55.189	0.2
18	4	2	2	1.59217	57.868	10.5
19	0	1	5	1.52971	60.472	0.1
20	5	1	1	1.50111	61.748	1.3
21	2	3	4	1.44842	64.257	0.1
22	5	2	1	1.42408	65.491	0.1
23	4	4	0	1.37886	67.925	4.4
24	5	2	2	1.35781	69.126	0.1
25	5	3	0	1.33769	70.317	0.4
26	1	3	5	1.31844	71.500	0.1
27	4	4	2	1.30000	72.675	4.3
28	2	3	5	1.26533	75.002	0.1
29	6	2	0	1.23329	77.304	5.4
30	4	4	3	1.21816	78.447	0.1
31	1	4	5	1.20357	79.586	0.1
32	5	3	3	1.18949	80.720	0.3
33	6	2	2	1.17589	81.851	2.7
34	5	4	2	1.16276	82.978	0.1
35	1	3	6	1.15005	84.1	0.1
36	4	4	4	1.12583	86.346	1.3
37	5	4	3	1.10309	88.583	0.1
38	5	5	1	1.09222	89.7	0.4

Stick Pattern



ลิขสิทธิ์มหาวิทยาลัยเชียงใหม่

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