

Name and formula

Reference code: 03-065-7421

PDF index name: Indium

Empirical formula: In

Chemical formula: In

Crystallographic parameters

Crystal system: Tetragonal

Space group: I4/mmm

Space group number: 139

a (Å): 3.2150

b (Å): 3.2150

c (Å): 4.9320

Alpha (°): 90.0000

Beta (°): 90.0000

Gamma (°): 90.0000

Calculated density (g/cm³): 7.48Volume of cell (10⁶ pm³): 50.98

Z: 2.00

RIR: 17.42

Status, subfiles and quality

Status: Diffraction data collected at non ambient temperature

Subfiles: Inorganic

Alloy, metal or intermetallic

NIST Pattern

Quality: Calculated (C)

Comments

Sample preparation: not mentioned

Temperature: -190

ReferencesPrimary reference: *Calculated from NIST using POWD-12++*Structure: Giessen, B. C., Morris, M., Grant, N. J., *Trans. Met. Soc. AIME* **239**, 883, (1967)**Peak list**

No.	h	k	l	d [Å]	2Theta[deg]	I [%]
1	1	0	1	2.69330	33.238	100.0
2	0	0	2	2.46600	36.404	18.6
3	1	1	0	2.27335	39.612	28.7
4	1	1	2	1.67146	54.885	18.3
5	2	0	0	1.60750	57.265	7.8
6	1	0	3	1.46373	63.506	10.5

7	2	1	1	1.38033	67.843	16.3
8	2	0	2	1.34665	69.781	7.3
9	0	0	4	1.23300	77.326	1.2
10	2	2	0	1.13667	85.325	1.7
11	1	1	4	1.08385	90.585	3.2
12	2	1	3	1.08228	90.753	6.0
13	3	0	1	1.04723	94.709	2.5
14	2	2	2	1.03229	96.525	2.4
15	3	1	0	1.01667	98.518	2.3
16	2	0	4	0.97834	103.877	2.0
17	1	0	5	0.94301	109.541	1.8
18	3	1	2	0.93993	110.076	3.6
19	3	0	3	0.89777	118.190	1.6
20	3	2	1	0.87745	122.775	3.0
21	2	2	4	0.83573	134.354	1.4
22	0	0	6	0.82200	139.142	0.3
23	2	1	5	0.81338	142.536	2.7
24	4	0	0	0.80375	146.824	0.7

Stick Pattern

